

Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-9902 Egapencil Black

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor
May be harmful if swallowed and enters airways
Causes skin irritation
Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

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IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eyes

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No	Weight %
1333-86-4	7 - 13 %
n.a	20 – 40 %
n.a	5 – 10 %
9004-70-0	10 – 20 %
9004-36-8	5 – 10 %
78-83-1	1 – 5 %
123-86-4	5 – 10 %
141-78-6	8 – 15 %
67-64-1	5 – 10 %
8013-07-8	1 – 5 %
	1333-86-4 n.a n.a 9004-70-0 9004-36-8 78-83-1 123-86-4 141-78-6 67-64-1

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

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Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental Precautions Do not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning upSweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

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Product name: 4080-9902 Egapencil Black

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Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.

Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Pigment black 1333-86-4	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Product name: 4080-9902 Egapencil Black



Hq

MATERIAL SAFETY DATA SHEET

None known

None known

Physical State Liquid **Appearance** Colour liquid Odor Solvent

No data available

Color Black **Odor Threshold** No information available

Property Values Remarks/ Method

Melting / freezing point No data available None known Boiling point / boiling range No data available None known Closed Cup

18°C Flash Point

Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known

Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known Specific Gravity 1.02 g/cm3 None known Water Solubility No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known Auto ignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known

Dynamic viscosity No data available **Explosive properties** No data available

Oxidizing Properties No data available

Other Information

Softening Point No data available **VOC Content (%)** No data available **Particle Size** No data available **Particle Size Distribution** No data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes



11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye ContactCauses eye irritationSkin ContactCauses skin irritationIngestionHarmful if swallowed

Long Term Effects No information available for product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Pigment black 1333-86-4	> 8000 mg/kg (Rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg	-	> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	_

Information on toxicological effects

Symptoms -

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Pigment Black		Group 2B		

IARC (International Agency for Research on Cancer)
Group 2AB - **Probably carcinogenic to humans**

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Pigment black 1333-86-4	72h EC50 > 10000 mg/l (Scenedesmus subspicatus)	96h LC50: > 1000 mg/L (Brachydanio rerio)	-	24h EC50 > 5600 mg/L
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

Product name: 4080-9902 Egapencil Black Issued: April 29, 2019



ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

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Product name: 4080-9902 Egapencil Black



Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2 methyl prepan 1 el	5000 lb		RQ 5000 lb final RQ
2-methyl propan-1-ol	5000 lb		RQ 2270 kg final RQ
N but d acctate	5000 lb		RQ 5000 lb final RQ
N-butyl acetate 5000 lb	Γ	RQ 2270 kg final RQ	
Ethyl gootata	5000 lb		RQ 5000 lb final RQ
Ethyl acetate	מו טטטט	Ī	RQ 2270 kg final RQ
Acetona i propon 2 one	E000 lb		RQ 5000 lb final RQ
Acetone ; propan-2-one	מו טטט	Ī	RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contain Proposition 65 chemicals

Chemical Name	California Prop. 65
Pigment Black	Carcinogen (airborne, unbound (not bound within a matrix) and respirable size (10 micrometer or less in diameter))

U.S. State Right-to-Know Regulations

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International Regulations

Canada WHMIS Hazard Class B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet Page 9 of 9

Product name: 4080-9902 Egapencil Black



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 9018-0024 Egapencil Clear Gloss New

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

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Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor May be harmful if swallowed and enters airways Causes skin irritation Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 8

Product name: 9018-0024 Egapencil Clear Gloss New



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eyes

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
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Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 30 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	2 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

Notes to Physician Treat symptomatically

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Product name: 9018-0024 Egapencil Clear Gloss New



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental Precautions Do not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning upSweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not

breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating,

drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with explosion proof

ventilation. Store away from incompatibles

Incompatible Products Incompatible with strong oxidizing agents and strong acids.

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Product name: 9018-0024 Egapencil Clear Gloss New



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Contol parameters</u> Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nitrocellulose	Ethanol; TWA: 1000 ppm		
9004-70-0	Isopropanol ; TWA 400 ppm	-	-
2-methyl propan-1-ol	TWA: 50 ppm	TWA: 100 ppm	TWA: 50 ppm
78-83-1		TWA: 300 mg/m ³	TWA: 150 mg/m ³
N-butyl acetate	TWA: 150 ppm		
123-86-4	STEL: 200 ppm	-	-
Ethyl acetate	TWA: 1440 mg/m ³		
141-78-6	TWA: 400 ppm	-	-
Acetone ; propan-2-one	TWA: 500 ppm		
67-64-1	TWA: 1210 mg/m ³		

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

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Appropriate engineering controls

Engineering Measures

Showers Eyewash stations Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid
Appearance Colour liquid Odor Solvent

ColorClearOdor ThresholdNo information available

Property Values Remarks/ Method No data available pН None known Melting / freezing point No data available None known Boiling point / boiling range No data available None known 18°C **Flash Point** Closed Cup **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known

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Product name: 9018-0024 Egapencil Clear Gloss New



Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** 1.00 g/cm³ None known Water Solubility No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known No data available Auto ignition temperature None known **Decomposition temperature** No data available None known Kinematic viscosity 10000 CPS None known Dynamic viscosity No data available None known **Explosive properties** No data available

No data available

Other Information

Oxidizing Properties

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidizing agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation
Skin Contact Causes skin irritation
Ingestion Harmful if swallowed

Long Term Effects No information available for product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose Ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg	-	> 16000 ppm (Rat) 6h

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Product name: 9018-0024 Egapencil Clear Gloss New



Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms -

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect No information available

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Reprodutive Toxicity No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

Page 6 of 8

Product name: 9018-0024 Egapencil Clear Gloss New



13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes Chronic Health Hazard No Fire Hazard Yes

Page 7 of 8

Product name: 9018-0024 Egapencil Clear Gloss New



Sudden Release of Pressure Hazard No Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2 mathyl propos 1 ol	5000 lb		RQ 5000 lb final RQ
2-methyl propan-1-ol	di 0006	-	RQ 2270 kg final RQ
N-butyl acetate 5000 lb	5000 lb		RQ 5000 lb final RQ
	ai 000c	-	RQ 2270 kg final RQ
[Tiby d. a a state	5000 lb		RQ 5000 lb final RQ
Ethyl acetate 5000 lb	di 000c	-	RQ 2270 kg final RQ
A 1	5000 lb	-	RQ 5000 lb final RQ
Acetone ; propan-2-one	5000 lb		RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

-

International Regulations

Canada

WHMIS Hazard Class

B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

Page 8 of 8

Product name: 9018-0024 Egapencil Clear Gloss New



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4085-2075 Egapencil Gold

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor May be harmful if swallowed and enters airways Causes skin irritation Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 10

Product name: 4085-2075 Egapencil Gold



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Metallic aluminum	7429-90-5	5 – 10 %
Pigmen yellow 83	5567-15-7	1 – 5 %
2-methyl propan-1-ol	78-83-1	2 – 5 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

Notes to Physician Treat symptomatically

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Product name: 4085-2075 Egapencil Gold 62 P.875C



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental PrecautionsDo not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Sweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

HandlingKeep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care.

Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating,

drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with explosion proof

ventilation. Store away from incompatibles

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Product name: 4085-2075 Egapencil Gold 62 P.875C



Incompatible Products
Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Contol parameters</u> Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Metallic aluminum 7429-90-5	TWA: 10 mg/m ³	-	-
Nitrocellulose 9004-70-0	Ethanol ; TWA : 1000 ppm Isopropanol ; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid
Appearance Colour liquid Odor Solvent

Color Gold Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks/ Method</u>

No data available None known No data available Melting / freezing point None known Boiling point / boiling range No data available None known **Flash Point** 18°C Closed Cup No data available None known **Evaporation Rate** Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known

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Product name: 4085-2075 Egapencil Gold 62 P.875C



Vapor pressureNo data availableNone known

Vapor density No data available None known **Specific Gravity** 1.00 g/cm3 None known Water Solubility No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known Auto ignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known

Explosive properties

No data available
Oxidizing Properties

No data available

Other Information

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidizing agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Skin ContactCauses eye irritation
Causes skin irritation

Ingestion Harmful if swallowed

Long Term Effects No information available for product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Metallic aluminum 7429-90-5	5 g/kg (Rat)	-	-
Pigmen Yellow 83 5567-15-7	LD50 > 2.000 mg/kg (rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h

Product name: 4085-2075 Egapencil Gold 62 P.875C



Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg		> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms -

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect No information available

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Reprodutive Toxicity No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Product name: 4085-2075 Egapencil Gold 62 P.875C



Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

15. REGULATORY INFORMATION

Chemical Inventories

Page 7 of 10

Product name: 4085-2075 Egapencil Gold 62 P.875C



TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
	5000 lb	-	RQ 5000 lb final RQ
2-methyl propan-1-ol			RQ 2270 kg final RQ
N-butyl acetate	5000 lb	-	RQ 5000 lb final RQ
			RQ 2270 kg final RQ
Ethyl acetate	5000 lb	-	RQ 5000 lb final RQ
			RQ 2270 kg final RQ
Acetone ; propan-2-one	5000 lb	-	RQ 5000 lb final RQ
	5000 lb		RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

-

International Regulations

Canada

WHMIS Hazard Class

B2 - Flammable liquid

D2B - Toxic materials

16. OTHER INFORMATION

NFPA Physical and Chemical Hazards **Health Hazard** 2 **Flammability** 2 Instability 0 **HMIS Health Hazard Flammability** 2 **Physical Hazard** 0 **Personal Protection** 2 Х

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

Page 8 of 10

Product name: 4085-2075 Egapencil Gold 62 P.875C



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If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

Page **9** of **10**

Product name: 4085-2075 Egapencil Gold 62 P.875C
Issued: April 29, 2019 Version: 1.0



Product name: 4085-2075 Egapencil Gold 62 P.875C Issued: April 29, 2019



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-4334 Egapencil P 032 C

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2	
Specific target organ toxicity (single exposure)	Category 3	
Flammable liquids	Category 2	

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor May be harmful if swallowed and enters airways Causes skin irritation Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 4080-4334 Egapencil P 032 C



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Titanium dioxide	13463-67-7	5 – 10 %
Pigment red	2786-76-7	10 – 15 %
Fluorescent pink	n.a	5 – 10 %
Fluorescent orange	n.a	1 – 5 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

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Product name: 4080-4334 Egapencil P 1905 C



Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental PrecautionsDo not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Sweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.

Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

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Product name: 4080-4334 Egapencil P 1905 C



Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

AppearanceColour liquidOdorSolvent

ColorBrownOdor ThresholdNo information available

Property Values Remarks/ Method

pHNo data availableNone knownMelting / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash Point18°CClosed Cup

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Product name: 4080-4334 Egapencil P 1905 C



Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** 1.08 g/cm³ None known Water Solubility No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known Auto ignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known **Explosive properties** No data available

No data available

Other Information

Oxidizing Properties

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation
Skin Contact Causes skin irritation
Ingestion Harmful if swallowed

Long Term Effects No information available for product

Component Information

Page 5 of 9

Product name: 4080-4334 Egapencil P 1905 C



Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L(Rat)4 h
Pigment red 2786-76-7	2000 mg/kg (Rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg	-	> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms -

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect

A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-

Product name: 4080-4334 Egapencil P 1905 C



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow		
2-methyl propan-1-ol	0.76		
N-butyl acetate	1.78		
Ethyl acetate	0.73		
Plasticizer	6.20		

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Page **7** of **9**

Product name: 4080-4334 Egapencil P 1905 C



AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
N-butyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Acetone ; propan-2-one	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contain Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Product name: 4080-4334 Egapencil P 1905 C



International Regulations

Canada WHMIS Hazard Class B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

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Product name: 4080-4334 Egapencil P 1905 C



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-6272 Egapencil P 347 C

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor May be harmful if swallowed and enters airways Causes skin irritation Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 4080-6272 Egapencil P 347 C



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Pigment yellow	5468-75-7	5 – 10 %
Pigment green	1328-53-6	10 – 20 %
Fluorescent green	n.a	1 – 5 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

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Product name: 4080-6272 Egapencil P 347 C



Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental PrecautionsDo not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Sweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.

Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

Page 3 of 9

Product name: 4080-6272 Egapencil P 347 C



Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Pigment yellow 5468-75-7	TWA: 10 mg/m ³	-	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

Appearance Colour liquid Odor Solvent

Color Brown Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks/ Method</u>

pHNo data availableNone knownMelting / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone known

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Product name: 4080-6272 Egapencil P 347 C



Flash Point 18°C Closed Cup

Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known Specific Gravity 1.03 a/cm3 None known Water Solubility No data available None known Solubility in other solvents No data available None known No data available Partition coefficient: n-octanol/water None known No data available None known Auto ignition temperature **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known **Explosive properties** No data available

No data available

Oxidizing Properties

Other InformationSoftening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation
Skin Contact Causes skin irritation
Ingestion Harmful if swallowed

Long Term Effects No information available for product

Page 5 of 9

Product name: 4080-6272 Egapencil P 347 C



Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Pigment yellow 5468-75-7	> 5000 mg/kg (Rat)	-	-
Pigment green 1328-53-6	2000 mg/kg (Rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg	-	> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect

A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Pigment green 1328-53-6	-	96h LC50: 5540 mg/L (Cyprinus carpio)	-	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l

Page 6 of 9

Product name: 4080-6272 Egapencil P 347 C



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Page **7** of **9**

Product name: 4080-6272 Egapencil P 347 C



AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Chemical Name	Weight %	SARA 313 - Threshold Values %
Pigment green 1328-53-6	20-25	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
N-butyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Acetone ; propan-2-one	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Page 8 of 9

Product name: 4080-6272 Egapencil P 347 C



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International Regulations

Canada WHMIS Hazard Class B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

Product name: 4080-6272 Egapencil P 347 C

Issued: April 29, 2019 Version: 1.0

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Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-6271 Egapencil P 360 C

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor
May be harmful if swallowed and enters airways
Causes skin irritation
Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 4080-6271 Egapencil P 360 C



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Titanium dioxide	13463-67-7	10 – 20 %
Pigment green	1328-53-6	1 – 5 %
Pigment yellow	5468-75-7	10– 20 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye ContactImmediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

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Product name: 4080-6271 Egapencil P 360 C



Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental Precautions Do not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Sweep up, shovel into waste container, and reuse if possible.

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Product name: 4080-6271 Egapencil P 360 C



7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.

Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Pigment yellow 5468-75-7	TWA: 10 mg/m ³	-	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

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Product name: 4080-6271 Egapencil P 360 C



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

Appearance Colour liquid Odor Solvent

Color Brown Odor Threshold No information available

Property Values Remarks/ Method

pHNo data availableNone knownMelting / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash Point18°CClosed Cup

Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known Specific Gravity 1.06 g/cm3 None known Water Solubility No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known Auto ignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known

Explosive properties

Oxidizing Properties

No data available
No data available
No data available

Other Information

Softening Point

VOC Content (%)

Particle Size

Particle Size Distribution

No data available
No data available
No data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

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Product name: 4080-6271 Egapencil P 360 C



11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation
Skin Contact Causes skin irritation
Ingestion Harmful if swallowed

Long Term Effects No information available for product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Pigment green 1328-53-6	2000 mg/kg (Rat)	-	-
Pigment yellow 5468-75-7	> 5000 mg/kg (Rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg	-	> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms -

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	•	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-

Product name: 4080-6271 Egapencil P 360 C



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Pigment green 1328-53-6	-	96h LC50: 5540 mg/L (Cyprinus carpio)	-	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

Page **7** of **9**

Product name: 4080-6271 Egapencil P 360 C

Issued: April 29, 2019



ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Chemical Name	Weight %	SARA 313 - Threshold Values %
Pigment green	20-25	1.0
1328-53-6	20 20	

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act

Product name: 4080-6271 Egapencil P 360 C



This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2 mathyl propos 1 al	5000 lb		RQ 5000 lb final RQ
2-methyl propan-1-ol	ai 0006	_	RQ 2270 kg final RQ
N. butul acetate	5000 lb		RQ 5000 lb final RQ
N-butyl acetate	ai 0006	_	RQ 2270 kg final RQ
Ethyl costate	5000 lb		RQ 5000 lb final RQ
Ethyl acetate	ai 0006	_	RQ 2270 kg final RQ
Acatana i pranan 2 ana	5000 lb		RQ 5000 lb final RQ
Acetone ; propan-2-one	מו טטט	[RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

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International Regulations

Canada WHMIS Hazard Class

B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

Product name: 4080-6271 Egapencil P 360 C



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-0244 Egapencil P 473 C

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor
May be harmful if swallowed and enters airways
Causes skin irritation
Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

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Product name: 4080-0244 Egapencil P 473 C



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eyes

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Titanium dioxide	13463-67-7	20 – 30 %
Pigment red	2786-76-7	1 – 5 %
Iron oxide yellow	51274-00-1	5 – 10 %
Pigment orange	3520-72-7	1 – 5 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

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Product name: 4080-0244 Egapencil P 473 C



Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental PrecautionsDo not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Sweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

HandlingKeep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.
Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container

with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

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Product name: 4080-0244 Egapencil P 473 C



Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Iron oxide yellow 51274-00-1	TWA: 10 mg/m ³ total inhalable dust TWA: 4 mg/m ³ respirable dust	-	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

Appearance Colour liquid Odor Solvent

Color Brown Odor Threshold No information available

Property
pHValues
No data availableRemarks/ Method
None known

Melting / freezing point
No data available
None known
Boiling point / boiling range
No data available
No data available
None known

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Product name: 4080-0244 Egapencil P 473 C



Flash Point 18°C Closed Cup

Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known Specific Gravity 1.20 a/cm3 None known Water Solubility No data available None known Solubility in other solvents No data available None known No data available Partition coefficient: n-octanol/water None known No data available None known Auto ignition temperature **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known **Explosive properties** No data available

No data available

Oxidizing Properties

Other InformationSoftening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation
Skin Contact Causes skin irritation
Ingestion Harmful if swallowed

Long Term Effects No information available for product

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Product name: 4080-0244 Egapencil P 473 C



Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Pigment red 2786-76-7	2000 mg/kg (Rat)	-	-
Pigment orange 3520-72-7	> 5000 mg/kg (Rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg	-	> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect

A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Iron oxide yellow 51274-00-1	-	96h LC50: > 1000 mg/L (Leuciscus idus)	Pseudomonas putida > 1000 mg/L	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l

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Product name: 4080-0244 Egapencil P 473 C



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Page **7** of **9**

Product name: 4080-0244 Egapencil P 473 C



AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
N-butyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Acetone ; propan-2-one	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Product name: 4080-0244 Egapencil P 473 C



International Regulations

Canada WHMIS Hazard Class B2 - Flammable liquid

D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

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Product name: 4080-0244 Egapencil P 473 C



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-0417 Egapencil P 1905 C

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor May be harmful if swallowed and enters airways Causes skin irritation Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 4080-0417 Egapencil P 1905 C



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Fluorescent orange	n.a	0.5 – 1 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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Product name: 4080-0417 Egapencil P 1905 C



Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental PrecautionsDo not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Sweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.

Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

Page 3 of 9

Product name: 4080-0417 Egapencil P 1905 C



Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

AppearanceColour liquidOdorSolvent

Color Brown Odor Threshold No information available

Property Values Remarks/ Method

pHNo data availableNone knownMelting / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash Point18°CClosed Cup

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Product name: 4080-0417 Egapencil P 1905 C



Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** 1.20 g/cm³ None known Water Solubility No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known Auto ignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known **Explosive properties** No data available

No data available

Other Information

Oxidizing Properties

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation
Skin Contact Causes skin irritation
Ingestion Harmful if swallowed

Long Term Effects No information available for product

Component Information

Page 5 of 9

Product name: 4080-0417 Egapencil P 1905 C



Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L(Rat)4 h
Pigment red 2786-76-7	2000 mg/kg (Rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg		> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms -

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect

A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-

Product name: 4080-0417 Egapencil P 1905 C



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

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Product name: 4080-0417 Egapencil P 1905 C



AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
N-butyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Acetone ; propan-2-one	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Product name: 4080-0417 Egapencil P 1905 C



International Regulations

Canada WHMIS Hazard Class B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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End of Safety Data Sheet

Page 9 of 9

Product name: 4080-0417 Egapencil P 1905 C



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-3027 Egapencil P 2025 C

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor
May be harmful if swallowed and enters airways
Causes skin irritation
Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 4080-2025 Egapencil P 3027 C



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Titanium dioxide	13463-67-7	20 – 30 %
Pigment orange	3520-72-7	5 – 10 %
Pigment yellow	5468-75-7	1 – 5 %
Fluorescent orange	n.a	1 – 5 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

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Product name: 4080-3027 Egapencil P 2025 C



Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental PrecautionsDo not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Sweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.

Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

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Product name: 4080-3027 Egapencil P 2025 C



Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Pigment yellow 5468-75-7	TWA: 10 mg/m ³	-	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

Appearance Colour liquid Odor Solvent

Color Brown Odor Threshold No information available

 Property
 Values
 Remarks/ Method

 pH
 No data available
 None known

pHNo data availableNone knownMelting / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone known

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Product name: 4080-3027 Egapencil P 2025 C



Flash Point 18°C Closed Cup

Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known Specific Gravity 1.10 a/cm³ None known Water Solubility No data available None known Solubility in other solvents No data available None known No data available Partition coefficient: n-octanol/water None known No data available None known Auto ignition temperature **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known **Explosive properties** No data available

No data available

Other Information

Oxidizing Properties

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation
Skin Contact Causes skin irritation
Ingestion Harmful if swallowed

Long Term Effects No information available for product

Page 5 of 9

Product name: 4080-3027 Egapencil P 2025 C



Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Pigment orange 3520-72-7	> 5000 mg/kg (Rat)	-	-
Pigment yellow 5468-75-7	> 5000 mg/kg (Rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg		> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms -

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect

A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)		24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-

Page 6 of 9

Product name: 4080-3027 Egapencil P 2025 C



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

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Dangerous Goods Class 3 Flammable Liquid

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Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

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Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Page 7 of 9

Product name: 4080-3027 Egapencil P 2025 C



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Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
N-butyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Acetone ; propan-2-one	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Product name: 4080-3027 Egapencil P 2025 C



International Regulations

Canada WHMIS Hazard Class B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

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End of Safety Data Sheet

Product name: 4080-3027 Egapencil P 2025 C



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-7008 Egapencil P 2945 C

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor
May be harmful if swallowed and enters airways
Causes skin irritation
Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

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Product name: 4080-7008 Egapencil P 2945 C



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Titanium dioxide	13463-67-7	10 – 20 %
Pigment blue	147-14-8	5 – 10 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

Notes to Physician Treat symptomatically

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Product name: 4080-7008 Egapencil P 2945 C



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental Precautions Do not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning upSweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.

Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

Incompatible Products Incompatible with strong oxidizing agents and strong acids.

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Product name: 4080-7008 Egapencil P 2945 C



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Pigment blue 147-14-8	TWA: 10 mg/m ³	-	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

AppearanceColour liquidOdorSolvent

ColorBrownOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks/ Method</u>

pHNo data availableNone knownMelting / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash Point18°CClosed Cup

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Product name: 4080-7008 Egapencil P 2945 C



Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** 1.05 g/cm³ None known Water Solubility No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known Auto ignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known **Explosive properties** No data available

No data available

Other Information

Oxidizing Properties

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation
Skin Contact Causes skin irritation
Ingestion Harmful if swallowed

Long Term Effects No information available for product

Component Information

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Product name: 4080-7008 Egapencil P 2945 C



Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Pigment blue 147-14-8	> 5000 mg/kg (Rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg		> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms -

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect

A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)		24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-

Product name: 4080-7008 Egapencil P 2945 C



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
Pigment blue	6.60
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Page **7** of **9**

Product name: 4080-7008 Egapencil P 2945 C



AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb		RQ 5000 lb final RQ
2-inethyl propari- i-or	3000 lb	-	RQ 2270 kg final RQ
N-butyl acetate	5000 lb		RQ 5000 lb final RQ
IN-Dutyl acetate	3000 lb	-	RQ 2270 kg final RQ
Ethyl costate	5000 lb		RQ 5000 lb final RQ
Ethyl acetate	อิบิบัน	-	RQ 2270 kg final RQ
Acatona i pranon 2 ana	5000 lb		RQ 5000 lb final RQ
Acetone ; propan-2-one	อิบิบับ ไม้	-	RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

International Regulations

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Product name: 4080-7008 Egapencil P 2945 C



Canada WHMIS Hazard Class B2 - Flammable liquid

D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date -Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

Product name: 4080-7008 Egapencil P 2945 C



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-7010 Egapencil P 2995 C

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor May be harmful if swallowed and enters airways Causes skin irritation Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 4080-7010 Egapencil P 2995 C



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Titanium dioxide	13463-67-7	10 – 20 %
Pigment blue	57455-37-5	1 – 5 %
Fluorescent green	n.a	10 – 20 %
Fluorescent blue	n.a	1 – 5 %
Iron oxide yellow	51274-00-1	5 – 10 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin ContactWash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

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Product name: 4080-7010 Egapencil P 2995 C



protect themselves and prevent spread of contamination.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental Precautions Do not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning upSweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.

Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

Page 3 of 9

Product name: 4080-7010 Egapencil P 2995 C



Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Pigment blue 57455-37-5	-	96h LC50 > 32000mg/kg	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

Appearance Colour liquid Odor Solvent

Color Brown Odor Threshold No information available

Property
pHValues
No data availableRemarks/ Method
None known

Melting / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone known

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Product name: 4080-7010 Egapencil P 2995 C



Flash Point 18°C Closed Cup

Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known Specific Gravity 1.05 a/cm3 None known Water Solubility No data available None known Solubility in other solvents No data available None known No data available Partition coefficient: n-octanol/water None known No data available None known Auto ignition temperature **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known No data available

No data available

Explosive properties
Oxidizing Properties

Other Information

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation
Skin Contact Causes skin irritation
Ingestion Harmful if swallowed

Long Term Effects No information available for product

Page 5 of 9

Product name: 4080-7010 Egapencil P 2995 C



Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Pigment blue 57455-37-5	10 g/kg (Rat)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg		> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect

A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Pigment blue 57455-37-5	-	96h LC50 > 32000mg/kg	-	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)		24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-

Page 6 of 9

Product name: 4080-7010 Egapencil P 2995 C



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Page **7** of **9**

Product name: 4080-7010 Egapencil P 2995 C



AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
N-butyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Acetone ; propan-2-one	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

International Regulations

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Product name: 4080-7010 Egapencil P 2995 C



Canada WHMIS Hazard Class B2 - Flammable liquid

D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

Product name: 4080-7010 Egapencil P 2995 C



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-5216 Egapencil P 7615 C

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor
May be harmful if swallowed and enters airways
Causes skin irritation
Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 4080-5216 Egapencil P 7615 C



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Iron oxide red	1332-37-2	5 – 10 %
Pigment black	1333-86-4	1 – 5 %
Titanium dioxide	13463-67-7	20 – 30 %
Iron oxide yellow	51274-00-1	5 – 10 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

Page 2 of 9

Product name: 4080-5216 Egapencil P 7615 C



Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental PrecautionsDo not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Sweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.

Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

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Product name: 4080-5216 Egapencil P 7615 C



Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Iron oxide red	TWA: 10 mg/m ³ total inhalable dust	_	_
1332-37-2	TWA: 4 mg/m ³ respirable dust		
Pigment black 1333-86-4	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Iron oxide yellow 51274-00-1	TWA: 10 mg/m ³ total inhalable dust TWA: 4 mg/m ³ respirable dust	-	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

Appearance Colour liquid Odor Solvent

Color Brown Odor Threshold No information available

Page 4 of 9

Product name: 4080-5216 Egapencil P 7615 C



Remarks/ Method **Values Property**

No data available None known pН Melting / freezing point No data available None known Boiling point / boiling range No data available None known Flash Point 18°C Closed Cup

No data available **Evaporation Rate** None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known **Upper flammability limit** No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known Specific Gravity None known 1.06 g/cm³ Water Solubility No data available None known Solubility in other solvents No data available None known No data available Partition coefficient: n-octanol/water None known Auto ignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known **Dynamic viscosity** No data available None known **Explosive properties** No data available **Oxidizing Properties**

No data available

Other Information

No data available Softening Point No data available **VOC Content (%) Particle Size** No data available **Particle Size Distribution** No data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation

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Product name: 4080-5216 Egapencil P 7615 C



Skin Contact Ingestion Long Term Effects Causes skin irritation Harmful if swallowed

No information available for product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron oxide red 1332-37-2	> 5000 mg/kg (Rat)	-	-
Pigment black 1333-86-4	> 8000 mg/kg (Rat)	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg		> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Pigment Black		Group 2B		

IARC (International Agency for Research on Cancer)

Group 2AB - Probably carcinogenic to humans

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Iron oxide red 1332-37-2	-	96h LC50: > 1000 mg/L (Leuciscus idus)	-	-
Pigment black 1333-86-4	72h EC50 > 10000 mg/l (Scenedesmus subspicatus)	96h LC50: > 1000 mg/L (Brachydanio rerio)	-	24h EC50 > 5600 mg/L

Page 6 of 9

Product name: 4080-5216 Egapencil P 7615 C



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Iron oxide yellow 51274-00-1	-	96h LC50: > 1000 mg/L (Leuciscus idus)	Pseudomonas putida > 1000 mg/L	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)		24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)		24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class

3 Flammable Liquid

Page **7** of **9**

Product name: 4080-5216 Egapencil P 7615 C



UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb	_	RQ 5000 lb final RQ RQ 2270 kg final RQ

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Product name: 4080-5216 Egapencil P 7615 C



Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
N-butyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Acetone ; propan-2-one	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contain Proposition 65 chemicals

Chemical Name	California Prop. 65
Pigment Black	Carcinogen (airborne, unbound (not bound within a matrix) and respirable size (10
3	micrometer or less in diameter))

U.S. State Right-to-Know Regulations

-

International Regulations

Canada WHMIS Hazard Class

B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

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End of Safety Data Sheet

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Product name: 4080-5216 Egapencil P 7615 C



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 9023-2081 Egapencil Primer Woodcolor New

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor May be harmful if swallowed and enters airways Causes skin irritation Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 9023-2081 Egapencil Primer Woodcolor New



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Iron oxide red	1332-37-2	1 – 5 %
Iron oxide yellow	51274-00-1	1 – 5 %
Titanium dioxide	13463-67-7	10 – 20 %
Extender	1332-58-7	20 – 40 %
2-methyl propan-1-ol	78-83-1	2 – 5 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 30 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye ContactImmediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Page 2 of 9

Product name: 9023-2081 Egapencil Primer Woodcolor New



Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental Precautions Do not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Page 3 of 9

Product name: 9023-2081 Egapencil Primer Woodcolor New



Methods for cleaning up

Sweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not

breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating,

drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with explosion proof

ventilation. Store away from incompatibles

Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Iron oxide red	TWA: 10 mg/m ³ total inhalable dust	-	
1332-37-2	TWA: 4 mg/m ³ respirable dust		
Iron oxide yellow	TWA: 10 mg/m ³ total inhalable dust	-	_
51274-00-1	TWA: 4 mg/m ³ respirable dust		
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Extender	TWA: 2 mg/m ³		TWA: 10 mg/m ³
1332-58-7	3	-	TWA: 5 mg/m ³
Nitrocellulose	Ethanol; TWA: 1000 ppm		
9004-70-0	Isopropanol ; TWA 400 ppm		
2-methyl propan-1-ol	TWA: 50 ppm	TWA: 100 ppm	TWA: 50 ppm
78-83-1		TWA: 300 mg/m ³	TWA: 150 mg/m ³
N-butyl acetate	TWA: 150 ppm		
123-86-4	STEL: 200 ppm		
Ethyl acetate	TWA: 1440 mg/m ³		
141-78-6	TWA: 400 ppm		
Acetone ; propan-2-one	TWA: 500 ppm		
67-64-1	TWA: 1210 mg/m ³		

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers Eyewash stations

Ventilation systems Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Page 4 of 9

Product name: 9023-2081 Egapencil Primer Woodcolor New



Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent **Skin and Body Protection**

contact. Due to high variations in glove construction and local condition the user should make a final

None known None known

None known

Closed Cup

None known

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn, **Respiratory Protection**

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid Appearance Colour liquid Odor Solvent

Color Woodcolor **Odor Threshold** No information available

Property Remarks/ Method **Values**

Hq No data available Melting / freezing point No data available Boiling point / boiling range No data available Flash Point 18°C **Evaporation Rate** No data available Flammability (solid, gas) No data available

Flammability Limit in Air No data available **Upper flammability limit** No data available Lower flammability limit No data available Vapor pressure No data available Vapor density No data available **Specific Gravity** 1.40 g/cm³ Water Solubility No data available Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available Auto ignition temperature No data available **Decomposition temperature** No data available 6000 CPS

Dvnamic viscosity No data available **Explosive properties** No data available Oxidizing Properties No data available

Other Information

Kinematic viscosity

No data available **Softening Point VOC Content (%)** No data available **Particle Size** No data available **Particle Size Distribution** No data available

10. STABILITY AND REACTIVITY

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidizing agents

Page 5 of 9

Product name: 9023-2081 Egapencil Primer Woodcolor New



Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Skin ContactCauses eye irritation
Causes skin irritation

Ingestion Harmful if swallowed

Long Term Effects No information available for product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron oxide red 1332-37-2	> 5000 mg/kg (Rat)	_	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Extender 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg	-	> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms -

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect No information available

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Reprodutive Toxicity No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	1	Daphnia Magna (Water Flea)
Iron oxide red 1332-37-2	_	96h LC50: > 1000 mg/L (Leuciscus idus)	-	-
Iron oxide yellow 51274-00-1	-	96h LC50: > 1000 mg/L (Leuciscus idus)	Pseudomonas putida > 1000 mg/L	-

Page 6 of 9

Product name: 9023-2081 Egapencil Primer Woodcolor New



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8		96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Page **7** of **9**

Product name: 9023-2081 Egapencil Primer Woodcolor New



Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb	_	RQ 5000 lb final RQ RQ 2270 kg final RQ

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Product name: 9023-2081 Egapencil Primer Woodcolor New



Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
N-butyl acetate	5000 lb		RQ 5000 lb final RQ
N-butyl acetate	5000 lb		RQ 2270 kg final RQ
Ethyl acetate	5000 lb		RQ 5000 lb final RQ
Elliyi acelale	5000 lb		RQ 2270 kg final RQ
Acetone : propon 2 one	5000 lb		RQ 5000 lb final RQ
Acetone ; propan-2-one	מו טטט	Ī	RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

-

International Regulations

Canada WHMIS Hazard Class

B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

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Product name: 9023-2081 Egapencil Primer Woodcolor New



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 9023-0000 Egapencil Primer White

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

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Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor May be harmful if swallowed and enters airways Causes skin irritation Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 9023-0000 Egapencil Primer White



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Titanium dioxide	13463-67-7	10 – 20 %
Extender	1332-58-7	20 – 40 %
2-methyl propan-1-ol	78-83-1	2 – 5 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 30 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Page 2 of 9

Product name: 9023-0000 Egapencil Primer White



Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental Precautions Do not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning upSweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

Page 3 of 9

Product name: 9023-0000 Egapencil Primer White



Handling Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not

breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating,

drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with explosion proof

ventilation. Store away from incompatibles

Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Extender 1332-58-7	TWA: 2 mg/m ³	-	TWA: 10 mg/m ³ TWA: 5 mg/m ³
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA: 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Page 4 of 9

Product name: 9023-0000 Egapencil Primer White



None known

None known

None known

None known

Physical State Liquid **Appearance** Colour liquid Odor Solvent

Color White **Odor Threshold** No information available

Property Values Remarks/ Method No data available Hq None known

No data available None known Melting / freezing point Boiling point / boiling range No data available None known Closed Cup

18°C **Flash Point**

Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known No data available None known **Upper flammability limit** Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** 1.50 g/cm³ None known Water Solubility No data available None known No data available Solubility in other solvents None known Partition coefficient: n-octanol/water No data available None known

Auto ignition temperature No data available **Decomposition temperature** No data available Kinematic viscosity 16900 CPS Dynamic viscosity No data available

Explosive properties No data available Oxidizing Properties No data available

Other Information

Softening Point No data available VOC Content (%) No data available **Particle Size** No data available **Particle Size Distribution** No data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidizing agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation **Skin Contact** Causes skin irritation

Page 5 of 9

Product name: 9023-0000 Egapencil Primer White



Harmful if swallowed Ingestion Long Term Effects

No information available for product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Extender 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg	-	> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect No information available

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Reprodutive Toxicity No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h	-
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)	-	24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L



Chemical Name	Toxicity to Algae	Toxicity to Fish		Daphnia Magna (Water Flea)
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

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Product name: 9023-0000 Egapencil Primer White



UN No 1263
Packing Group III
Proper Shipping Name PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	QR
2 methyl preper 1 ol	5000 lb		RQ 5000 lb final RQ
2-methyl propan-1-ol	5000 lb		RQ 2270 kg final RQ
N-butyl acetate	5000 lb		RQ 5000 lb final RQ
N-butyr acetate	5000 lb	-	RQ 2270 kg final RQ
Ethyl agototo	5000 lb		RQ 5000 lb final RQ
Ethyl acetate	5000 lb	-	RQ 2270 kg final RQ
Acetone ; propan-2-one 5000 lb	5000 lb		RQ 5000 lb final RQ
	<u>-</u>	RQ 2270 kg final RQ	

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

International Regulations

Canada

WHMIS Hazard Class

B2 - Flammable liquid D2B - Toxic materials

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Product name: 9023-0000 Egapencil Primer White



16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions.

End of Safety Data Sheet

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Product name: 9023-0000 Egapencil Primer White



Hazardous Substance, Dangerous Goods

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 4080-2512 Egapencil Yellow Staples New

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based surface coating Uses advised against Wood surface on pencil

Details of the supplier of the safety data sheet

Supplier Name PT. EGA Paintindo
Supplier Address JI. Pasar Kamis no. 88
Kroncong, Tangerang

Indonesia

Supplier Phone Number +62-21-5903210

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger



Hazard statement

Highly flammable liquid and vapor May be harmful if swallowed and enters airways Causes skin irritation Harmful to aquatic life with long lasting effects

Appereance :Physical StateOdorColour liquidLiquidSolvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

Page 1 of 9

Product name: 4080-2512 Egapencil Yellow Staples New



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell rinse mouth. Do NOT induce vomiting

Eves

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes

Skin

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and containers to an approved waste disposal plant

Other information

The concentrations of the Phthalate content and heavy metals are below the cut-off value/concentration limit for SDS information as required by EN71 part3, ASTM F 9363, EN-14372:2004. For the actual concentrations, see the Certificate of Analysis

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Iron oxide yellow	51274-00-1	1 – 5 %
Pigment orange	3520-72-7	1 – 5 %
Pigment yellow	5468-75-7	10 – 20 %
Titanium dioxide	13463-67-7	10 – 20 %
Acrylic polymers	n.a	20 – 40 %
Aldehyder binder	n.a	5 – 10 %
Nitro Cellulose	9004-70-0	10 – 20 %
Cellulose Ester	9004-36-8	5 – 10 %
2-methyl propan-1-ol	78-83-1	1 – 5 %
N-butyl acetate	123-86-4	5 – 10 %
Ethyl acetate	141-78-6	8 – 15 %
Acetone ; propan-2-one	67-64-1	5 – 10 %
Plasticizer	8013-07-8	1 – 5 %

4. FIRST AID MEASURES

First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Hold eye open and rinse slowly and gently with water for 15

- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. For skin burns, cover

with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters.

In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. Remove contaminated clothing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen through facemask and ensure clear airways. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person. Consult a physician.

protect themselves and prevent spread of contamination.

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Product name: 4080-2512 Egapencil Yellow Staples New



Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, fire blanket, or dry chemical powder

Unsuitable Extinguishing Media

Use of water spray maybe inefficient

Specific Hazards Arising from the chemical

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Vapour may travel a considerable distance to source of ignition and flashback. Avoid all ignition sources. All potential sources of ignition must be removed both in and near work area. Do NOT smoke.

Protective equipment and precautions for firefighters

On burning may emit toxic fumes. Fire fighters and other likely to be exposed to vapour should wear self-contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Small Spills Use personal protective clothing. Avoid contact with skin and eye. Do not breathe vapours. Wipe up

with absorbent (clean rag or paper towel). Allow absorbent to dry before disposing with normal

household garbage. See protective measures under point 7 and 8.

Large Spills Shut off of possible source of ignition. Clear area of all unprotected personnel. Prevent further

leakage or spillage if safe to do so. Spilled particles present a severe slip hazard. Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Do NOT inhale

vapours.

Environmental Precautions

Environmental PrecautionsDo not allow to enter into waterways or drains. If the product contaminates lakes, rivers or sewages,

inform authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for Containment Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit,

diatomaceous earth), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Sweep up, shovel into waste container, and reuse if possible.

7. HANDLING AND STORAGE

Precautions for safe handling

HandlingKeep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow.
Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container

with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands

before eating, drinking, or smoking

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a cool and dry place with

explosion proof ventilation. Store away from incompatibles

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Product name: 4080-2512 Egapencil Yellow Staples New



Incompatible Products Incompatible with strong oxidizing agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contol parameters

Exposure Guidelines

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
Iron oxide yellow 51274-00-1	TWA: 10 mg/m ³ total inhalable dust TWA: 4 mg/m ³ respirable dust	-	-
Pigment yellow 5468-75-7	TWA: 10 mg/m ³	-	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Nitrocellulose 9004-70-0	Ethanol; TWA: 1000 ppm Isopropanol; TWA 400 ppm	-	-
2-methyl propan-1-ol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³
N-butyl acetate 123-86-4	TWA: 150 ppm STEL: 200 ppm	-	-
Ethyl acetate 141-78-6	TWA : 1440 mg/m ³ TWA: 400 ppm	-	-
Acetone ; propan-2-one 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations

Ventilation systems

Keep containers closed when not in used

Individual protection measures, such as personal protective equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear protective clothing and gloves. Gloves made from nitrile rubber is suitable for intermittent

contact. Due to high variations in glove construction and local condition the user should make a final

assessment. Always wash hand before drinking, eating, smoking, or using the toilet.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn,

ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid

AppearanceColour liquidOdorSolvent

ColorBrownOdor ThresholdNo information available

Property Values Remarks/ Method

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Product name: 4080-2512 Egapencil Yellow Staples New



pHNo data availableNone knownMelting / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash Point18°CClosed Cup

Evaporation Rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** 1.05 g/cm³ None known No data available None known Water Solubility Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known Auto ignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity 6000 CPS None known Dynamic viscosity No data available None known **Explosive properties** No data available

No data available

Other Information

Oxidizing Properties

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data availableParticle Size DistributionNo data available

10. STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients

Chemical stability

Stable under normal storage conditions. Keep in a cool place

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Oxidising agents

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, nitrogen oxides, and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product Information

Inhalation Exposure to vapor or mist may irritate respiratory tract

Eye Contact Causes eye irritation Skin Contact Causes skin irritation

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Product name: 4080-2512 Egapencil Yellow Staples New



Ingestion

Harmful if swallowed

Long Term Effects No information available for product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Pigment orange 3520-72-7	> 5000 mg/kg (Rat)	-	-
Pigment yellow 5468-75-7	> 5000 mg/kg (Rat)	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.8 mg/L (Rat) 4 h
Nitrocellulose 9004-70-0	13700 mg/kg (Rat) 5840 mg/kg (Rat)	-	20000ppm (Rat) 10h
Cellulose ester 9004-36-8	> 3200 mg/kg (Rat)	> 1000 mg/kg (Guinea Pig)	-
2-methyl propan-1-ol 78-83-1	= 2460 mg/kg (Rat)	-	-
N-butyl acetate 123-86-4	= 14000 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 2000 mg/ m ³ (Rat)
Ethyl acetate 141-78-6	5.6 g/kg (Rat) 11.3 mL/kg		> 16000 ppm (Rat) 6h
Acetone ; propan-2-one 67-64-1	= 5800 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 20 mg/L (Rat) 4h
Plasticizer 8013-07-8	22400 mg/kg (Rat) > 5000 mg/kg (Rat)	> 19900 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization No information available

Mutagenic Effect A dimethylsulfoxide (DMSO) suspension of carbon black produced negative result in an Ames test. Organic

solvent extract of carbon black, however, can contain traces of polycyclic aromatic hydrocarbon (PAH), which may affect the result in different in-vitro test system. In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black.

This observation is believe to be rat specific and consequence of "lung overload"

Reprodutive Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Iron oxide yellow 51274-00-1	-	96h LC50: > 1000 mg/L (Leuciscus idus)	Pseudomonas putida > 1000 mg/L	-
Titanium dioxide 13463-67-7	-	48h LC50: >1000 mg/L (Leuciscus idus)	-	-
Nitrocellulose 9004-70-0	-	96h LC50: 5.540 mg/L (Oncorhynchus mykiss) 96h LC50: 8.120 mg/L (Pimephales promelas)	-	24h EC50: 10 mg/l
2-methyl propan-1-ol 78-83-1	-	96h LC50: 1.22 mg/L (Pimephales promelas) 96h LC50: 1000 - 3000 mg/L (Alburnus alburnus)	-	48h EC50: 950 - 1200 mg/l

Product name: 4080-2512 Egapencil Yellow Staples New



Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
N-butyl acetate 123-86-4	72h EC50 : 674.7 mg/l (Desmodesmus subspicatus)	96h LC50: 100 mg/l, (Lepomis macrochirus) 96h LC50: 17 - 19 mg/l (Pimephales promelas)		24h LC50: 205 mg/l
Ethyl acetate 141-78-6	-	96h LC50: 200.32 mg/L (Heteropneustes fossilis)	-	-
Acetone ; propan-2-one 67-64-1	96h EC50: 100 mg/L (Selenastrum capricornutum)	96h LC50: 5540 mg/L (Oncorhynchus mykiss) 96h LC50: 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Bluegill sunfish)	EC50 =14500 mg/L 15 min	24h EC50: 10 mg/L
Plasticizer 8013-07-8	-	96h LC50: 150 mg/L	EC50 =100 mg/L	-

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative

Chemical Name	Low Pow
2-methyl propan-1-ol	0.76
N-butyl acetate	1.78
Ethyl acetate	0.73
Plasticizer	6.20

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose in accordance with all applicable federal, state, and local regulations by using appropriate personal protection equipment, see "Section 8. Exposure Controls/Personal Protection" of this SDS

Contaminated Packaging

If possible, material and its container should be recycled. If not, dispose in accordance with all applicable local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAUL TRANPORT

Classified as Dangerous Goods for Transport of Dangerous Goods by Road & Rail.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

Segregation Dangerous Goods: Not to be loaded with explosive, flammable gases, if both are in bulk, toxic gases, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances, however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Page **7** of **9**

Product name: 4080-2512 Egapencil Yellow Staples New



Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name PAINT

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Dangerous Goods Class 3 Flammable Liquid

UN No 1263
Packing Group III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	RQ
2-methyl propan-1-ol	5000 lb	-	RQ 5000 lb final RQ
			RQ 2270 kg final RQ
N-butyl acetate	5000 lb	-	RQ 5000 lb final RQ
			RQ 2270 kg final RQ
Ethyl acetate	5000 lb	-	RQ 5000 lb final RQ
			RQ 2270 kg final RQ
Acetone ; propan-2-one	5000 lb	_	RQ 5000 lb final RQ
			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

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Product name: 4080-2512 Egapencil Yellow Staples New



U.S. State Right-to-Know Regulations

International Regulations

Canada WHMIS Hazard Class B2 - Flammable liquid D2B - Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards 0 HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By PT. Ega Paintindo

Revision Date - Revision Note -

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

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End of Safety Data Sheet

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Product name: 4080-2512 Egapencil Yellow Staples New Issued: April 29, 2019

Version: 1.0