acc. to OSHA HCS



1 Identification

- · Product identifier
- Trade name: WB 72xx Series ; xx = 34 red, 41 green, 42 dark green, 43(.1) forest green, 45 lilac, 46 dark blue
- · Article number: 100000000527
- Relevant identified uses of the substance or mixture and uses advised against
- Currently no such applications are identified.
- · Application of the substance / the mixture dry erase whiteboard ink
- \cdot Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

DOKUMENTAL GmbH & Co KG Woellnerstraße 26 D-67065 Ludwigshafen Phone + 49 (0) 621/37702 321 Fax + 49 (0) 621/37702 391 www.dokumental.de

· Information department:

Technical Service, Dr. B. Polzin Tel.: +49-621-37702 322 Mobile +49-1726204412

E-Mail: bernd.polzin@dokumental.de · Emergency telephone number:

24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness.

- Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms





GHS02

· Signal word Danger

· Hazard-determining components of labeling:

1-methoxy-2-propanol propan-2-ol

Hazard statements

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause drowsiness or dizziness.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

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Safety Data Sheet

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Trade name: WB 72xx Series ; xx = 34 red, 41 green, 42 dark green, 43(.1) forest green, 45 lilac, 46 dark blue

(Contd. of page 1)

In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2
Fire = 3
Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 3Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

Mixture of the following substances, containing non-hazardous substances and colouring agents.

· Description: Mixture of the substances listed below with nonhazardous additions.

| · Dangerous | components: | |
|-------------|----------------------|---------|
| 64-17-5 | ethanol | 50-100% |
| 107-98-2 | 1-methoxy-2-propanol | 10-25% |
| 67-63-0 | propan-2-ol | 2.5-10% |

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- $^{\circ}$ Most important symptoms and effects, both acute and delayed

No further relevant information available.

 \cdot Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

 \cdot Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

· Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Contd. on pa

acc. to OSHA HCS



Trade name: WB 72xx Series ; xx = 34 red, 41 green, 42 dark green, 43(.1) forest green, 45 lilac, 46 dark blue

(Contd. of page 2)

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

| · PAC-1: | | |
|----------|----------------------|-------------|
| 64-17-5 | ethanol | 1,800 ppm |
| 107-98-2 | 1-methoxy-2-propanol | 100 ppm |
| 67-63-0 | propan-2-ol | 400 ppm |
| · PAC-2: | | |
| 64-17-5 | ethanol | 3300* ppm |
| 107-98-2 | 1-methoxy-2-propanol | 160 ppm |
| 67-63-0 | propan-2-ol | 2000* ppm |
| · PAC-3: | | |
| 64-17-5 | ethanol | 15000* ppm |
| 107-98-2 | 1-methoxy-2-propanol | 660 ppm |
| 67-63-0 | propan-2-ol | 12000** ppm |

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.

· Components with limit values that require monitoring at the workplace:

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

| _ | <u> </u> |
|------|--|
| 64-1 | 7-5 ethanol (50-100%) |
| PEL | Long-term value: 1900 mg/m³, 1000 ppm |
| REL | Long-term value: 1900 mg/m³, 1000 ppm |
| TLV | Short-term value: 1880 mg/m³, 1000 ppm |
| 107- | 98-2 1-methoxy-2-propanol (10-25%) |
| REL | Short-term value: 540 mg/m³, 150 ppm Long-term value: 360 mg/m³, 100 ppm |
| TLV | Short-term value: 369 mg/m³, 100 ppm Long-term value: 184 mg/m³, 50 ppm |
| 67-6 | 3-0 propan-2-ol (2.5-10%) |
| PEL | Long-term value: 980 mg/m³, 400 ppm |
| REL | Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm |
| TLV | Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI |

· Ingredients with biological limit values:

67-63-0 propan-2-ol (2.5-10%)

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

(Contd. on page 4)

acc. to OSHA HCS



Trade name: WB 72xx Series ; xx = 34 red, 41 green, 42 dark green, 43(.1) forest green, 45 lilac, 46 dark blue.

(Contd. of page 3)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

| 9 | Physical | and | CHEMITCAL | ргоре | erties |
|---|----------|-----|-----------|-------|--------|
| | | | | | |

- Information on basic physical and chemical properties
- General Information

· Appearance:

· pH-value:

Form:

Fluid

Color:

According to product specification

· Odor: Product specific · Odor threshold: Not determined.

Important information on protection of health and

environment, and on safety.

Not determined.

· Change in condition

Melting point/Melting range: Undetermined. Boiling point/Boiling range: 78 °C (172.4 °F)

· Flash point: 13 °C (55.4 °F)

· Flammability (solid, gaseous): Not applicable. · Ignition temperature: 287 °C (548.6 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

1.7 Vol % 15 Vol % Upper:

· Vapor pressure at 20 °C (68 °F): 59 hPa (44.3 mm Hg)

· Density at 20 °C (68 °F): 0.9 g/cm³ (7.5 lbs/gal)

Relative density Not determined.

Vapor density Not determined.

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Trade name: WB 72xx Series ; xx = 34 red, 41 green, 42 dark green, 43(.1) forest green, 45 lilac, 46 dark blue

| | (Contd. of page 4 |
|---|--|
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with Water: | Partly miscible. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: Dynamic at 20 °C (68 °F): Kinematic: | 8-11 mPas Not determined. |
| · Solvent content: Organic solvents: | 80.6 % |
| Solids content: · Other information | 6.5 % The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications. |

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- \cdot $\textbf{\textit{Sensitization:}}$ No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: $\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i$

Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- $\boldsymbol{\cdot}$ Other adverse effects No further relevant information available.

US

okumental

Trade name: WB 72xx Series ; xx = 34 red, 41 green, 42 dark green, 43(.1) forest green, 45 lilac, 46 dark

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(Contd. of page 5)

13 Disposal considerations

· Waste treatment methods

blue

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

| Transport information | |
|---|---|
| UN-Number | |
| DOT, ADR, IMDG, IATA | UN1263 |
| UN proper shipping name | |
| DOT | Paint |
| ADR | 1263 Paint |
| IMDG, IATA | PAINT |
| Transport hazard class(es) | |
| DOT | |
| F.AMIARLE LOUIS | |
| Class | 3 Flammable liquids |
| Label | 3 |
| ADR | |
| Class | 3 (F1) Flammable liquids |
| Label | 3 |
| | |
| Class Label | 3 Flammable liquids |
| Label | 3 |
| Packing group DOT, ADR, IMDG, IATA | II |
| Environmental hazards: | Not applicable. |
| Special precautions for user Danger code (Kemler): | Warning: Flammable liquids 33 |
| EMS Number: | F-E , <u>S-E</u> |
| Stowage Category | В |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | f Not applicable. |
| Transport/Additional information: | |
| DOT Quantity limitations | On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L |
| ADR Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| IMDG | |
| Limited quantities (LQ) | 5L |
| Excepted quantities (EQ) | Code: E2 |
| | Maximum net quantity per inner packaging: 30 ml |

acc. to OSHA HCS



Trade name: WB 72xx Series ; xx = 34 red, 41 green, 42 dark green, 43(.1) forest green, 45 lilac, 46 dark blue

(Contd. of page 6)

· UN "Model Regulation":

UN 1263 PAINT, 3, II

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · TSCA new (21st Century Act) (Substances not listed)
- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · DSL/NDSL (Canada) All ingredients are listed
- Cancerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol Α4 67-63-0 propan-2-ol

· MAK (German Maximum Workplace Concentration) 64-17-5 ethanol

5

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- GHS label elements
 - The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms





GHS02

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

1-methoxy-2-propanol propan-2-ol

· Hazard statements

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause drowsiness or dizziness.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

(Contd. on page 8)

acc. to OSHA HCS



Trade name: WB 72xx Series; xx = 34 red, 41 green, 42 dark green, 43(.1) forest green, 45 lilac, 46 dark blue

(Contd. of page 7)

In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · National regulations:
- · Technical instructions (air):

| Class | Share in % |
|-------|------------|
| NK | 50-100 |

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Date of preparation / last revision 02/21/2018 / 14
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic

VPVB: Very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids - Category 2

Eye Irrit. ZA: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

 \cdot * Data compared to the previous version altered.

acc. to OSHA HCS



1 Identification

- · Product identifier
- Trade name: WB 72xx Series ; xx = 11 red; 18 violet; 23 black; 38 violet blue; 39 green; 40 red
- · Article number: 100000000538
- Relevant identified uses of the substance or mixture and uses advised against

 \cdot Application of the substance / the mixture $\ensuremath{\text{dry}}$ erase whiteboard ink

- Currently no such applications are identified
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

DOKUMENTAL GmbH & Co KG Woellnerstraße 26 D-67065 Ludwigshafen Phone + 49 (0)621/37702 321 Fax + 49 (0)621/37702 391 www. dokumental.de

Information department:

Technical Service, Dr. B. Polzin Tel.: +49-621-37702 322 Mobile +49-1726204412 E-Mail: bernd.polzin@dokumental.de

Emergency telephone number:

24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A $\,$ H319 $\,$ Causes serious eye irritation. STOT SE 3 $\,$ H336 $\,$ May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





- · Signal word Danger
- · Hazard-determining components of labeling:

1-methoxy-2-propanol

· Hazard statements

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause drowsiness or dizziness.

· Precautionary statements

 ${\it Keep\ away\ from\ heat/sparks/open\ flames/hot\ surfaces.\ -\ No\ smoking.}$

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

(Contd. on page 2)

acc. to OSHA HCS



Trade name: WB 72xx Series; xx = 11 red; 18 violet; 23 black; 38 violet blue; 39 green; 40 red

(Contd. of page 1)

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2
Fire = 3
Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Mixture of the following substances, containing non-hazardous substances and colouring agents.
- · Description: Mixture of the substances listed below with nonhazardous additions.

| • | Dangerous | components: |
|---|-----------|-------------|
|---|-----------|-------------|

| 64-17-5 | ethanol | 50-100% |
|----------|----------------------|---------|
| 107-98-2 | 1-methoxy-2-propanol | 10-25% |

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- \cdot For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- $\boldsymbol{\cdot}$ Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Wear protective clothing.

· Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

 \cdot Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 3)

(Contd. of page 2)

Safety Data Sheet

acc. to OSHA HCS



Trade name: WB 72xx Series; xx = 11 red; 18 violet; 23 black; 38 violet blue; 39 green; 40 red

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

| · PAC-1: | | |
|----------|----------------------|------------|
| 64-17-5 | ethanol | 1,800 ppm |
| 107-98-2 | 1-methoxy-2-propanol | 100 ppm |
| · PAC-2: | | |
| 64-17-5 | ethanol | 3300* ppm |
| 107-98-2 | 1-methoxy-2-propanol | 160 ppm |
| · PAC-3: | | |
| 64-17-5 | ethanol | 15000* ppm |
| 107-98-2 | 1-methoxy-2-propanol | 660 ppm |

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

| · Comp | Components with limit values that require monitoring at the workplace: | | |
|--------|---|--|--|
| 64-1 | 7-5 ethanol (50-100%) | | |
| PEL | Long-term value: 1900 mg/m³, 1000 ppm | | |
| REL | Long-term value: 1900 mg/m³, 1000 ppm | | |
| TLV | Short-term value: 1880 mg/m³, 1000 ppm | | |
| 107- | 98-2 1-methoxy-2-propanol (10-25%) | | |
| REL | Short-term value: 540 mg/m^3 , 150 ppm Long-term value: 360 mg/m^3 , 100 ppm | | |
| TLV | Short-term value: 369 mg/m³, 100 ppm Long-term value: 184 mg/m³, 50 ppm | | |

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- \cdot Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several

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substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Fluid

Product specific

Not determined.

Not determined.

Undetermined.

78 °C (172.4 °F)

13 °C (55.4 °F)

Not applicable. 287 °C (548.6 °F)

Not determined.

specifications.

1,7 Vol % 15 Vol %

Product is not selfigniting.

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

partially derived from the component's data of the

mixture. These data are no binding product

According to product specification

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information

· Appearance:

Form:

Color:

· Odor:

· Odor threshold:

· Important information on protection of health and environment, and on safety.

· pH-value: · Change in condition

Melting point/Melting range: Boiling point/Boiling range:

· Flash point: · Flammability (solid, gaseous):

· Ignition temperature: · Decomposition temperature:

· Auto igniting: · Danger of explosion:

· Explosion limits: Upper:

· Vapor pressure at 20 °C (68 °F):

· Other information

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

59 hPa (44.3 mm Hg) Density at 20 °C (68 °F): 0,9 g/cm³ (7.5 lbs/gal) · Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water: Partly miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic at 20 °C (68 °F): 8 mPas Kinematic: Not determined. · Solvent content: Organic solvents: 73,7 % Solids content: 10,8 % The physical and chemical properties given in Section 9.1 are rough data only, which are

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- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the eye: Irritating effect.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- $\boldsymbol{\cdot}$ Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water ${\it Max}$

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- $^{\cdot}$ Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

| UN-Number |
|-----------|
| |

· DOT, ADR, IMDG, IATA UN1263

· UN proper shipping name \cdot DOT

· ADR · IMDG, IATA Paint 1263 Paint PAINT

· Transport hazard class(es)

· DOT



Class 3 Flammable liquids

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(Contd. of page 5) · Label · ADR · Class 3 (F1) Flammable liquids Labe1 · IMDG, IATA · Class 3 Flammable liquids · Label · Packing group · DOT, ADR, IMDG, IATA II· Environmental hazards: Not applicable. Warning: Flammable liquids · Special precautions for user · Danger code (Kemler): .3.3 · EMS Number: F-E , S-E· Stowage Category · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · DOT · Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L · ADR · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · IMDG · Limited quantities (LQ) 5L· Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · UN "Model Regulation": UN 1263 PAINT, 3, II

15 Regulatory information

- $\cdot \ \textit{Safety, health and environmental regulations/legislation specific for the substance or \textit{mixture} \\$
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· DSL/NDSL (Canada) All ingredients are listed

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· Cancerogenity categories

| · EPA (Environmental Protection Agency) | |
|---|----|
| None of the ingredients is listed. | |
| · TLV (Threshold Limit Value established by ACGIH) | |
| 64-17-5 ethanol | A3 |
| · MAK (German Maximum Workplace Concentration) | |
| 64-17-5 ethanol | 5 |
| NTOGU Co. (National Tartitute for Commetical Cofety and Harlth) | |

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms





· Signal word Danger

· Hazard-determining components of labeling:

1-methoxy-2-propanol

Hazard statements

Highly flammable liquid and vapor. Causes serious eve irritation.

May cause drowsiness or dizziness.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

 ${\tt Wear protective gloves/protective clothing/eye protection/face protection.}$

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · National regulations:
- · Technical instructions (air):

| Class | Share in % | |
|-------|------------|--|
| NK | 50-100 | |

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Date of preparation / last revision 12/06/2017 / 10
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 2: Flammable liquids - Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
. * Data compared to the previous version altered.