## Safety Data Sheet (SDS)

	Ouroty Duta	
Section 1 - CHEMICAL PRO	DUCT AND COMPANY Product Name	ODF8-A
	Product Code Company Name Address Company Contact Phone Number Emergency Phone Number	ODF8A00001 PENTEL CO., LTD. 7–2,KOAMICHO,NIHONBASHI,CHUO–KU,TOKYO QUALITY ASSURANCE DEPARTMENT I 048–928–6668 048–928–6668
	Fax Number Mail Address Recommended Use and Restriction on Use	048-928-9190 hinpo@pentel.co.jp ink
	030	(E)NMS50-A, NMS51-A, NMSINK-A
Section 2 – HAZARDS IDENT GHS Classification	TIFICATION	
	Physicochemical Hazards	Flammable liquids Category 2
	Health Hazards	Acute toxicity - inhalation(vapour) Category 4 Acute toxicity - inhalation(powder) Category 4 Serious eye damage/eye irritation Category 1 Sensitization - respiratory Category 1 Sensitization - skin Category 1 Germ cell mutagenicity Category 1B Reproductive toxicity Category 1A Specific target organ toxicity(single exposure) Category 2(kidney,systemic toxicity,central nervous system) Specific target organ toxicity(single exposure) Category 3(narcotic effect,respiratory tract irritation) Specific target organ toxicity(repeated exposure) Category 1(liver) Specific target organ toxicity(repeated exposure) Category 2(central nervous system) Acute hazards to the acutic environment
	Environmental Hazards	Acute hazards to the aquatic environment Category 3 Chronic hazards to the aquatic environment Category 3 Other hazards than mentioned above are Not applicable or No data available.
	GHS Label Elements Symbols	
	Signal Word Hazard Statements	Danger H225 Highly flammable liquid and vapour

- H318 Causes serious eye damage
- H317 May cause an allergic skin reaction
- H332 Harmful if inhaled

Dura conticuend	<ul> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled</li> <li>H335 May cause respiratory irritation</li> <li>H336 May cause drowsiness and dizziness</li> <li>H340 May cause genetic defects</li> <li>H360 May damage fertility or the unborn child</li> <li>H371 May cause damage to kidney,systemic toxicity,central nervous system.</li> <li>H372 Causes damage to liver through prolonged or repeated exposure.</li> <li>H373 May cause damage to central nervous system through prolonged or repeated exposure.</li> <li>H402 Harmful to aquatic life</li> <li>H412 Harmful to aquatic life with long lasting effects</li> </ul>
Precautional	
Statements Prevention Precautionary Statements	Keep container tightly closed.(P233)
	Keep cool.(P235)
	Avoid breathing mist, vapours and spray.(P261)
	Wash hands thoroughly after handling.(P264)
	Do not eat, drink or smoke when using this
	product.(P270)
	-
	Use only outdoors or in a well-ventilated
	area.(P271)
	Wear eye protection and face protection.(P280)
	Use personal protective equipment as
	required.(P281)
Response	IF INHALED: If breathing is difficult, remove victim
Precautionary	to fresh air and keep at rest in a position
Statements	comfortable for breathing.(P304+P340)
	IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses, if
	present and easy to do. Continue
	rinsing.(P305+P351+P338)
	Get medical advice and attention if you feel
	unwell.(P314)
	If skin irritation or rash occurs: Get medical
	advice and attention.(P333+P313)
	If eye irritation persists: Get medical advice and
	attention.(P337+P313)
<b>C</b> 1	
Storage	Store in a well-ventilated place. Keep container
Precautionary	tightly closed.(P403+P233)
Statements	
	Store locked up.(P405)
Disposal	Dispose of contents and container in accordance
Precautionary	with local, regional and national regulations (to be
Statements	specified).(P501)

# Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture

mixture

or mixture					
Chemical Name or	Concentration or Its	Formula	ENCS No.	/ISHL No.	CAS RN
Generic Name	Ranges	Formula	ENCS No.	ISHL No.	UAS KN
Ethanol	52.16%	CH3CH2O	(2)-202	Existing	64-17-5
		Н			

Isopropanol	8.17%	CH3CH(O H)CH3	(2)-207	2-(8)-319	67-63-0
Acetone	0.67%	CH3COCH 3	(2)-542	Existing	67-64-1
1-Propanol	14%	CH3CH2C H2OH	(2)-207	Existing	71-23-8
Benzyl alcohol	5%	C7H5O	(3)-1011	Existing	100-51-6
Alkyl(C10– 16)benzenesulfonic acid	3%				68584-22-5
Rosin	7%		(7)-935	Existing	8050-09-7

Impurities and/or Stabilizing Additives which CorNo information available

Section 4 - FIRST AID MEASURES	
Inhalation	If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow easier breathing. Get medical advice and attention if you feel unwell.
Skin Contact	Wash with soap and plenty of water. If skin irritation or rash occurs: Get medical advice and attention.
Eye Contact	Wash eyes carefully for several minutes with water. Take off contact lenses if easily removed, and continue to wash eyes afterwards. When the ocular stimulation lasts, Seek medical
Ingestion	treatment and advice. Rinse a mouth. Don't make vomit by force. Get medical advice and attention if you feel unwell.
Section 5 – FIRE FIGHTING MEASURES	
Extinguishing Media	Carbon dioxide, dry chemicals, water sprinkling, and general foam extinguishing agents
Protection of Fire Figther	In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for chemicals
Section 6 – ACCIDENTAL RELEASE MEASURES	
Personal Precautions,	Wear appropriate personal protective equipment
Protective Equipment and Emergency Procedures	(Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental	Do not release into the environment. Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorpti on/Sweeping/Vacuming/ Neutralization	Absorb or cover with dry soil, sand, or incombustible materials. Then collect them into a container. Collect the material into a disposal container by
	sucking up or sweeping up. Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container.
	Remove from water surface by skimming, or absorbing with an adequate absorbent.

Methods and Equipment for Containment and Cleaning up		If not dangerous, stop the leak.
Prevention Measures for Secondary Accidents		Small amount: Prevent the material from wetting by rain. Cover with dry soil, dry sand, or non- combustibles and store under a plastic sheet cover to avoid scattering and wetting. Solidify substances and scrape off. Cleansing the contaminated area thoroughly with water after removal. Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area) Prevent flowing into drain, sewage, basement, and closed area.
		Remove thoroughly since the smooth and slippery surface will be formed on the floor.
Section 7 – HANDLING AND	STORAGE	
Handling	Technical Measures	Provide ventilation system and Use necessary personal protective equipment as described in "8. EXPOSURE CONTROLS AND PERSONAL
	Local and General Ventilation	Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
	Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid swallowing Avoid the contact with the skin. Do not breathe gas. Do not breathe mist, vapours and spray.
		Carry out ventilation of the exhuast. Avoid the contact with eyes. Handle at a well-ventilated place. Avoid high temperature and direct sunlight.
	Prevents Handling of Imcompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
Storage Precautionary Statements	Technical Measures	The storage facility should be privided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.
	Imcompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
	Storage Conditions	Have containers keep away from direct sunlight and heat. Keep away from heat. Store in a tightly closed container. Store locked up.
	Material Used in Packaging/Container	Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations."
Section 8 - EXPOSURE CON Engineering Controls	TROLS / PERSONAL	PROTECTION A general proper ventilation is enough to control concentration in air.
Personal Protective Equipment	Respiratory Protection	Wear an adequate protective apparatus for respiratory organs.

	Hand Protection Eye Protection Skin and Body	Use necessary personal protective gloves. Use an adequate personal eye protector. Goggles (ordinary glass type, ordinary glass type with side shields, and goggle type) Wear a protective equipment for the face.
Construction Management	Protection	Use the personal protective clothing and full face mask whenever necessary.
Specific Hygine Measure	S	Wash hands thoroughly after handling.
Section 9 – PHYSICAL AND Appearance	CHEMICAL PROPERT Physical State Colour Odour pH	TIES liquid black characteristic No data available
Initial Boiling Point and		No information available
Boiling Ranges Flash Point Auto-Ignition		7.4°C (Tag Closed Cup) No information available
Section 10 – STABILITY AN	D REACTIVITY	
Stability Possibility of Hazardous		The material is stable under storage and handling conditions comprised with the regulations. No data available
Reaction Conditions to Avoid		No data available
Hazardous Decompositio Products	ri	No data available
Section 11 - TOXICOLOCIO		
Section 11 - TOXICOLOGIC Acute Toxicity		No information available
Section 12 – ECOLOGICAL	INFORMATION Environmental Hazards	No information available
Ecotoxicity		No information available
Section 13 - DISPOSAL CO Residual Waste	NSIDERATIONS	For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, to dispose of the material.
Contaminated Container and Packaging		Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.
Section 14 – TRANSPORT I International Regulations		Conform to the provisions of IMO. 1263 PAINT

3

Class

Packing Group

Regulatory

Marine Pollutant

Information by Air

II Not applicable Conform to the provisions of ICAO/IATA.

	UN No. Proper Shipping	1263 PAINT
	Name. Class	3
	Packing Group	Π
Regulations in Japan	Regulatory	Not applicable
	Information by Road or Rail	
	Regulatory Information by Sea	Conform to the provisions of the Ship Safety Law.
	UN No.	1263
	Proper Shipping	PAINT
	Name.	
	Class	3
	Packing Group	Π
	Marine Pollutant	Not applicable
	Regulatory Information by Air	Conform to the provisions of the Ship Safety Law.
	UN No.	1263
	Proper Shipping Name.	PAINT
	Class	3
	Packing Group	П

## Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

Section 16 – OTHER INFORMATION Information Contact

Other Property

No information available

This information is furnished without warranty express or implied.

This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

### Safety Data Sheet (SDS)

Preparation Date 2012/10/03 Revision Date 2016/01/12 Section 1 - CHEMICALS AND COMPANY IDENTIFICATION Chemical Identifier ODF2-B Product Code ODF2B00001 Company Name PENTEL CO., LTD. Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO Company Contact QUALITY ASSURANCE DEPARTMENT I Phone Number 048-928-6668 Fax Number 048-928-9190 Mail Address hinpo@pentel.co.jp 048-928-6668 **Emergency Phone** Number Recommended Use ink and Restriction on Use (E)NN50,60-B, NX(N)50,60-B, NR2-B, NX(N)S15-B, NR3,4-B, NXSINK-B, N850,860-B, N860INK-B, NMS50.51-B, M10U-B Section 2 - HAZARDS IDENTIFICATION **GHS** Classification Physicochemical Flammable liquids Category 2 Hazards Health Hazards Acute toxicity - inhalation (vapour) Category 4 Serious eye damage/eye irritation Category 2A Germ cell mutagenicity Category 1B Reproductive toxicity Category 1A Specific target organ toxicity (single exposure) Category 1(kidney, systemic toxicity, central nervous system) Specific target organ toxicity (single exposure) Category 3(narcotic effect, respiratory tract irritation) Specific target organ toxicity (repeated exposure) Category 1(liver) Specific target organ toxicity (repeated exposure) Category 2(blood vessel,central nervous system.spleen) Environmental Hazard to the aquatic environment (acute hazard) Hazards Category 3 Hazard to the aquatic environment (long-term hazard) Category 3 Other hazards than mentioned above are Not applicable or No data available. **GHS** Label Elements Symbols

Signal Word Hazard Statements



Danger H225 Highly flammable liquid and vapour H412 Harmful to aquatic life with long lasting effects

	H319 Causes serious eye irritation H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness and dizziness H340 May cause genetic defects H360 May damage fertility or the unborn child H370 Causes damage to kidney,systemic toxicity,central nervous system H372 Causes damage to liver through prolonged or repeated exposure H373 May cause damage to blood vessel,central nervous system,spleen through prolonged or repeated exposure
Precautionary	
Statements	
Prevention	Wear protective gloves, eye protection and face
Precautionary Statements	protection.(P280)
Otatements	Keep container tightly closed.(P233)
	Avoid breathing mist, vapours and spray.(P261)
	Keep cool.(P235)
	Wash hand thoroughly after handling.(P264)
	Do not eat, drink or smoke when using this
	product.(P270)
	Use only outdoors or in a well-ventilated
_	area.(P271)
Response	IF INHALED: Remove to fresh air and keep at rest
Precautionary	in a position comfortable for
Statements	breathing.(P304+P340)
	IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.(P305+P351+P338)
	Get medical advice and attention if you feel
	unwell.(P314)
	If skin irritation or rash occurs, get medical advice
	and attention.(P333+P313)
	If eye irritation persists: Get medical advice and
	attention.(P337+P313)
Storage	Store in a well-ventilated place keeping container
Precautionary	tightly closed.(P403+P233)
Statements	
	Store locked up.(P405)
Disposal Dressutioner <i>i</i>	Dispose of contents and container in accordance
Precautionary Statements	with local, regional and national regulations (to be specified).(P501)
Statements	specified).(F JUT)

# Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance		mixture			
or Mixture					
Chemical Name or	Concentration or Its	Formula	ENCS No.	/ISHL No.	CAS RN
Generic Name	Ranges	Fornula	ENCS No.	ISHL No.	UAS RN
Ethanol	70.59%	CH3CH2O	(2)-202	Existing	64-17-5
		Н			
Isopropanol	11.06%	CH3CH(O H)CH3	(2)-207	2–(8)–319	67-63-0
Acetone	0.91%	CH3COCH 3	(2)-542	Existing	67-64-1
Benzyl alcohol	5%	C7H5O	(3)-1011	Existing	100-51-6

Impurities and/or Stabilizing Additives which Contribute to the	No information available
Section 4 – FIRST AID MEASURES Inhalation	If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow easier breathing. Get medical advice and attention if you feel unwell.
Skin Contact	Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice and attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When the ocular stimulation lasts, Seek medical
Ingestion	treatment and advice. Rinse mouth. Do NOT induce vomiting. Get medical advice and attention if you feel unwell.
Section 5 – FIRE FIGHTING MEASURES	
Extinguishing Media Protection of Fire Figther	Dry chemicals, CO2, water spray or regular foam. In fire fighting, wear respiratory protection and chemical protective clothing.
Section 6 - ACCIDENTAL RELEASE MEASURES	
Personal Precautions, Protective Equipment and Emergency Procedures	Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation
Environmental	or contact with eyes and skin. Do not release into the environment. Pay attention not to cause the influence on the environment by discharging into rivers.
	This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.
Methods and Equipment for Containment and Cleaning up	Stop leak if you can do it without risk.
	Small spills; cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with
	rain. Allow material to solidify, and scrape up. After removal, flush contaminated area thoroughly with water.
	Absorb or cover with dry earth, sand or other non-combustible material and transfer to Vacuum or sweep up material and place in a disposal container.
	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

	Prevention Measures for Secondary Accidents		Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.
Se	ction 7 - HANDLING AND S	STORAGE	
	Handling		Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
		Precautions for Safe	Do not eat, drink or smoke when using this
		Handling	product.
			Wash hand thoroughly after handling. Avoid breathing mist, vapours and spray.
			Avoid swallowing.
			Avoid contact with skin.
			Use exhaust ventilation.
			Avoid contact with eyes. Handle at a well-ventilated place.
			Protect from high temperature and direct sunlight.
		_	Refer to "Section 10 - STABILITY AND
		Imcompatible Substances or	REACTIVITY".
		Mixtures	
		Specific Hygine Measures	Wash hand thoroughly after handling.
	Storage Precautionary	Technical Measures	The storage facility should be provided with
	Statements		necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.
			Refer to "Section 10 – STABILITY AND REACTIVITY".
			Have containers keep away from direct sunlight and heat.
			Keep away from heat.
			Store in a tightly closed container. Store locked up.
		Material Used in	Use containers prescribed in the "Fire Service
			Law (Japan)" and the "UN Transport Regulations".
Se	ction 8 – EXPOSURE CON	TROLS / PERSONAL	PROTECTION
	Engineering Controls		Good general ventilation should be sufficient to
	Personal Protective	Respiratory	control airborne levels. Wear an adequate protective apparatus for
	Equipment	Protection	respiratory organs.
		Hand Protection	Wear protective gloves.
		Eye Protection	Wear eye protection.
			Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
Se	ction 9 - PHYSICAL AND (	CHEMICAL PROPERTI	
200	Appearance	Physical State	liquid
		Form	liquid
	Odour	Colour	red
	Odour Odour threshold		alcoholic No data available
	pH		No data available

Melting Point/Freezing		No data available
Point Initial Boiling Point and		No data available
Boiling Ranges Flash Point Evaporation Rate Flammability (solid, gas) Flammability or Explosive Limits	Lower Limit	7.4°C (Tag Closed Cup) No data available No data available No data available
Vapour Pressure Vapour Density Specific Gravity (Density) Partition Coefficient : n- Octanol/Water Auto-Ignition Decomposition Temperature Viscosity Kinematic viscosity	Upper Limit	No data available No data available
Section 10 - STABILITY AND Reactivity Chemical stability Possibility of Hazardous Reaction Conditions to Avoid Imcompatible Substances or Mixtures Hazardous Decomposition Products		No data available No data available No data available No data available No data available No data available
Section 11 - TOXICOLOGICA Acute Toxicity Skin Corrosion/Irritation Serious eye damage/eye irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration Hazard	L INFORMATION	No information available No data available
Section 12 - ECOLOGICAL IN Hazard to the aquatic environment (acute	VFORMATION	No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard to the ozone layer		No data available

Section 13 - DISPOSAL CONSIDERATIONS

Residual Waste Contaminated Container and Packaging		Disposal should be in accordance with applicable regulations and standards by the respective local governments. Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material. Recycle containers after cleansing, or carry out the disposal under the related laws and regulations
		and the standards of the local governments.
Section 14 – TRANSPORT IN	FORMATION	
International Regulations	Regulatory Information by Sea UN No. Proper Shipping Class Packing Group Marine Pollutant Transport in bulk	Conform to the provisions of IMO. 1263 PAINT 3 II Not applicable Not applicable
	according to MARPOL 73/78,Annex II ,and the IBC code Regulatory Information by Air UN No. Proper Shipping Class Decline Course	Conform to the provisions of ICAO/IATA. 1263 PAINT 3 T
Regulations in Japan	Packing Group Regulatory Information by Road or Rail	II Not applicable
	Regulatory Information by Sea UN No. Proper Shipping	Conform to the provisions of the Ship Safety Law. 1263 PAINT
	Name. Class Packing Group Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code	3 II Not applicable Not applicable
	Regulatory Information by Air UN No. Proper Shipping	Conform to the provisions of the Ship Safety Law. 1263 PAINT
Emergency Response Guide Number	Name. Class Packing Group	3 II Not applicable

Guide Number

Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

## Section 16 - OTHER INFORMATION Information Contact Other Property

No information available This information is furnished without warranty express or implied. This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

### Safety Data Sheet (SDS)

Preparation Date 2012/10/03 Revision Date 2016/01/12 Section 1 - CHEMICALS AND COMPANY IDENTIFICATION Chemical Identifier ODF2-C Product Code ODF2C00001 Company Name PENTEL CO., LTD. Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO Company Contact QUALITY ASSURANCE DEPARTMENT I Phone Number 048-928-6668 048-928-9190 Fax Number Mail Address hinpo@pentel.co.jp **Emergency Phone** 048-928-6668 Number Recommended Use ink and Restriction on Use NN50,60-C, NX(N)50,60-C, NR2-C, NX(N)S15-C, NR3,4-C, NXSINK-C, N850,860-C, N860INK-C, NMS50,51-C, M10U-C Section 2 - HAZARDS IDENTIFICATION **GHS** Classification Physicochemical Flammable liquids Category 2 Hazards Health Hazards Acute toxicity - inhalation (vapour) Category 4 Serious eye damage/eye irritation Category 2B Germ cell mutagenicity Category 1B Reproductive toxicity Category 1A Specific target organ toxicity (single exposure) Category 2(kidney, systemic toxicity, central nervous system) Specific target organ toxicity (single exposure) Category 3(narcotic effect, respiratory tract irritation) Specific target organ toxicity (repeated exposure) Category 1(liver) Specific target organ toxicity (repeated exposure) Category 2(central nervous system) Environmental Hazard to the aquatic environment (acute hazard) Hazards Category 3 Hazard to the aquatic environment (long-term hazard) Category 3 Other hazards than mentioned above are Not applicable or No data available. **GHS** Label Elements Symbols

> Signal Word Hazard Statements

Danger H320 Causes eye irritation H225 Highly flammable liquid and vapour H412 Harmful to aquatic life with long lasting effects

	H332 Harmful if inhaled
	H335 May cause respiratory irritation
	H336 May cause drowsiness and dizziness
	H340 May cause genetic defects
	H360 May damage fertility or the unborn child
	H371 May cause damage to kidney,systemic
	toxicity,central nervous system
	H372 Causes damage to liver through prolonged or
	repeated exposure
	H373 May cause damage to central nervous
	system through prolonged or repeated exposure
Precautionary	
Statements	
Prevention	Wear protective gloves, eye protection and face
Precautionary	protection.(P280)
Statements	
	Keep container tightly closed.(P233)
	Avoid breathing mist, vapours and spray.(P261)
	Keep cool.(P235)
	Wash hand thoroughly after handling.(P264)
	Do not eat, drink or smoke when using this
	product.(P270)
	Use only outdoors or in a well-ventilated
	area.(P271)
Response	IF INHALED: Remove to fresh air and keep at rest
Precautionary	in a position comfortable for
Statements	breathing.(P304+P340)
	IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses, if
	present and easy to do. Continue
	rinsing.(P305+P351+P338)
	Get medical advice and attention if you feel
	unwell.(P314)
	If skin irritation or rash occurs, get medical advice
	and attention.(P333+P313)
	If eye irritation persists: Get medical advice and
	attention.(P337+P313)
Storage	Store in a well-ventilated place keeping container
Precautionary	tightly closed.(P403+P233)
Statements	
otatements	Store locked up.(P405)
Disposal	Dispose of contents and container in accordance
Precautionary	with local, regional and national regulations (to be
Statements	specified).(P501)

# Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture mixture

Chemical Name or	Concentration or Its	Formula	ENCS No.	/ISHL No.	CAS RN
Generic Name	Ranges	Torniua	ENCS No.	ISHL No.	
Ethanol	56.73%	CH3CH2O	(2)-202	Existing	64-17-5
		Н			
Isopropanol	8.89%	CH3CH(O	(2)-207	2-(8)-319	67-63-0
		H)CH3			
Acetone	0.73%	CH3COCH	(2)-542	Existing	67-64-1
		3		_	
Benzyl alcohol	5%	C7H5O	(3)-1011	Existing	100-51-6
1-ethoxy-2-propanol	10%		(7)-97	Existing	1569-02-4

Impurities and/or Stabilizing Additives which Contribute to the	No information available
Section 4 – FIRST AID MEASURES Inhalation	If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow easier breathing. Get medical advice and attention if you feel unwell.
Skin Contact	Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice and attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When the ocular stimulation lasts, Seek medical treatment and advice.
Ingestion	Rinse mouth. Do NOT induce vomiting. Get medical advice and attention if you feel unwell.
Section 5 – FIRE FIGHTING MEASURES Extinguishing Media Protection of Fire Figther	Dry chemicals, CO2, water spray or regular foam. In fire fighting, wear respiratory protection and chemical protective clothing.
	chemical protective clothing.
Section 6 - ACCIDENTAL RELEASE MEASURES Personal Precautions, Protective Equipment and Emergency Procedures	Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental	Do not release into the environment. Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.
Methods and Equipment for Containment and Cleaning up	Stop leak if you can do it without risk.
	Small spills; cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Allow material to solidify, and scrape up. After removal, flush contaminated area thoroughly with water. Absorb or cover with dry earth, sand or other non-combustible material and transfer to Vacuum or sweep up material and place in a disposal container. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.
Prevention Measures for Secondary Accidents	Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

		Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.
Section 7 - HANDLING AND	STORAGE	
Handling		Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
	Precautions for Safe Handling	Do not eat, drink or smoke when using this product.
		Wash hand thoroughly after handling. Avoid breathing mist, vapours and spray.
		Avoid swallowing.
		Avoid contact with skin.
		Use exhaust ventilation. Avoid contact with eyes.
		Handle at a well-ventilated place.
		Protect from high temperature and direct sunlight.
	Imcompatible	<sup>:</sup> Refer to "Section 10 - STABILITY AND REACTIVITY".
	Substances or	
	Mixtures Specific Hygine	Wash hand thoroughly after handling.
	Measures	
Storage Precautionary	Technical Measures	The storage facility should be provided with
Statements		necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.
		Refer to "Section 10 - STABILITY AND REACTIVITY".
		Have containers keep away from direct sunlight
		and heat. Keep away from heat.
		Store in a tightly closed container.
		Store locked up.
	Material Used in	Use containers prescribed in the "Fire Service
	Packaging/Container	· Law (Japan)" and the "UN Transport Regulations".
Section 8 – EXPOSURE CON	ITROLS / PERSONAL	PROTECTION
Engineering Controls		Good general ventilation should be sufficient to
		control airborne levels.
Personal Protective Equipment	Respiratory Protection	Wear an adequate protective apparatus for respiratory organs.
Equipment	Hand Protection	Wear protective gloves.
	Eye Protection	Wear eye protection.
		Protection glasses (ordinary glasses, ordinary
		glasses with side shields, and goggles).
Section 9 - PHYSICAL AND	CHEMICAL PROPERT	IES
Appearance	Physical State	liquid
	Form	liquid
Odour	Colour	blue alcoholic
Odour Odour threshold		alconolic No data available
pH		No data available
Melting Point/Freezing Point		No data available

Initial Boiling Point and Boiling Ranges		No data available
Flash Point Evaporation Rate		7.4°C (Tag Closed Cup) No data available
Flammability (solid, gas)		No data available
Flammability or Explosive Limits	Lower Limit	No data available
	Upper Limit	No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific Gravity (Density)		No data available
Partition Coefficient : n- Octanol/Water		No data available
Auto-Ignition		No data available
Decomposition Temperature		No data available
Viscosity		No data available
Kinematic viscosity		No data available
Section 10 - STABILITY AND	REACTIVITY	
Reactivity		No data available
Chemical stability		No data available
Possibility of Hazardous Reaction		No data available
Conditions to Avoid		No data available
Imcompatible Substances		No data available
or Mixtures		
Hazardous Decomposition Products		No data available
Section 11 - TOXICOLOGICA	L INFORMATION	
Acute Toxicity		No information available
Skin Corrosion/Irritation		No data available
Serious eye damage/eye irritation		No data available
Respiratory or Skin		No data available
Sensitization		
Germ Cell Mutagenicity		No data available
Carcinogenicity		No data available
Reproductive Toxicity		No data available
Specific target organ toxicity (single exposure)		No data available
Specific target organ		No data available
toxicity (repeated		No data available
exposure)		
Aspiration Hazard		No data available
Section 12 - ECOLOGICAL IN Hazard to the aquatic	FORMATION	No data available
environment (acute		No data available
Hazard to the aquatic		No data available
environment (long-term		
hazard)		
Hazard to the ozone layer		No data available
Section 13 - DISPOSAL CONS	SIDERATIONS	
Residual Waste		Disposal should be in acco

Disposal should be in accordance with applicable regulations and standards by the respective local governments.

Commission a waste disposal company, or a local

Contaminated Container		public body who are licensed by local or regional government, to dispose of the material. Recycle containers after cleansing, or carry out
and Packaging		the disposal under the related laws and regulations and the standards of the local governments.
Section 14 - TRANSPORT IN	FORMATION	
International Regulations	Regulatory Information by Sea	Conform to the provisions of IMO.
	UN No.	1263
	Proper Shipping	PAINT
	Class	3
	Packing Group	П
	Marine Pollutant	Not applicable
	Transport in bulk according to MARPOL	Not applicable
	73/78,Annex II,and the IBC code	
	Regulatory Information by Air	Conform to the provisions of ICAO/IATA.
	UN No.	1263
	Proper Shipping	PAINT
	Class	3
	Packing Group	I
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable
	Regulatory Information by Sea	Conform to the provisions of the Ship Safety Law.
	UN No.	1263
	Proper Shipping Name.	PAINT
	Class	3
	Packing Group	П
	Marine Pollutant	Not applicable

Emergency Response Guide Number

Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

Transport in bulk

73/78,Annex II ,and the IBC code Regulatory

Information by Air

Proper Shipping

Packing Group

according to MARPOL

UN No.

Name.

Class

Section 16 – OTHER INFORMATION Information Contact

No information available

Not applicable

1263

3

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PAINT

Not applicable

Conform to the provisions of the Ship Safety Law.

Other Property

This information is furnished without warranty express or implied.

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