Safety Data Sheet (SDS)

Preparation Date 2012/10/03 Revision Date 2016/01/12

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier ODF2—A
Product Code ODF2A00001
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
Emergency Phone 048-928-6668

Number

Recommended Use ink

and Restriction on

Use

(E)NN50,60-A, NX(N)50,60-A, NR2-A, N850,860-A, N860INK-A, NX(N)S15-A, NR3,4-A, NXSINK-A

Section 2 – HAZARDS IDENTIFICATION GHS Classification

Physicochemical

Hazards

Health Hazards

Flammable liquids Category 2

Acute toxicity - inhalation (vapour) 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)

Environmental Hazards Hazard to the aquatic environment (acute hazard)

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 H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H332 Harmful if inhaled

H334 May cause allergy or asthma symptoms or

breathing difficulties 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 H412 Harmful to aquatic life with long lasting

effects

Precautionary Statements Prevention Precautionary Statements

Wear protective gloves, eye protection and face

protection.(P280)

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 Precautionary

Statements

IF INHALED: Remove to fresh air and keep at rest

in a position 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)

Storage Precautionary Store in a well-ventilated place keeping container

tightly closed.(P403+P233)

Statements Store locked up.(P405)

Disposal Precautionary Statements Dispose of contents and container in accordance with local, regional and national regulations (to be

specified).(P501)

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	Formula	ENCS No.	ISHL No.	UAS KIN
Ethanol	49.25%	CH3CH2O	(2)-202	Existing	64-17-5
		П			
Isopropanol	7.72%	•	(2)-207	2-(8)-319	67-63-0
		H)CH3			

Acetone	0.63%	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	4%		Unknown	Unknown	68584-22-5
Rosin	7%		(7)-935	Existing	8050-09-7

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.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Environmental

Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation 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.

Stop leak if you can do it without risk.

Methods and Equipment for Containment and Cleaning up

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. Removes all ignition sources promptly. (Prohibition

Secondary Accidents

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

Prevention Measures for

Handling Technical Measures Provide ventilation system and use necessary

personal protective equipment as described in

Section 8 - EXPOSURE CONTROLS /

PERSONAL PROTECTION".

Handling

Precautions for Safe 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 eves.

Handle at a well-ventilated place.

Protect from high temperature and direct sunlight.

Prevents Handling of Refer to "Section 10 - STABILITY AND

REACTIVITY".

Imcompatible

Substances or

Mixtures

Measures

Specific Hygine

Wash hand thoroughly after handling.

Storage Precautionary

Statements

Technical Measures

The storage facility should be provided with 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.

Use containers prescribed in the "Fire Service Material Used in Packaging/Container Law (Japan)" and the "UN Transport Regulations".

Section 8 - EXPOSURE CONTROLS / 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. Wear protective gloves. Hand Protection **Eye Protection**

Wear eye protection.

Protection glasses (ordinary glasses, ordinary

glasses with side shields, and goggles).

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State liquid
Form liquid
Colour black

alcoholic

Odour threshold

pH

No data available

No data available

Melting Point/Freezing

No data available

Point

Odour

Initial Boiling Point and No data available

Boiling Ranges

Flash Point 7.4°C (Tag Closed Cup)

Evaporation Rate

Flammability (solid, gas)

Flammability or Explosive

Lower Limit

No data available

No data available

Limits

Upper Limit No data available

Vapour Pressure

Vapour Density

Specific Gravity (Density)

Partition Coefficient: n
No data available

No data available

No data available

Octanol/Water

Auto-Ignition No data available
Decomposition No data available

Temperature

Viscosity No data available Kinematic viscosity No data available

Section 10 - STABILITY AND REACTIVITY

Reactivity

Chemical stability

Possibility of Hazardous

No data available

No data available

Reaction

Conditions to Avoid No data available Imcompatible Substances No data available

or Mixtures

Hazardous Decomposition No data available

Products

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

No information available

Skin Corrosion/Irritation No data available
Serious eye damage/eye No data available

irritation

Respiratory or Skin No data available

Sensitization

Germ Cell Mutagenicity

Carcinogenicity

Reproductive Toxicity

Specific target organ

No data available
No data available
No data available

toxicity (single exposure)

Specific target organ No data available

toxicity (repeated

exposure)

Aspiration Hazard No data available

Section 12 - ECOLOGICAL INFORMATION

Hazard to the aquatic No data available

environment (acute

Hazard to the aquatic environment (long-term

hazard)

Hazard to the ozone layer

No data available

No data available

Section 13 - DISPOSAL CONSIDERATIONS

Residual Waste

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.

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 INFORMATION

International Regulations

Regulatory

Conform to the provisions of IMO.

Information by Sea

UN No. Proper Shipping Class

3 Π

1263

PAINT

Marine Pollutant Transport in bulk

Packing Group

Not applicable Not applicable

according to MARPOL

73/78, Annex II, and the IBC code

Regulatory

Conform to the provisions of ICAO/IATA.

Information by Air

UN No. **Proper Shipping** Class

П Packing Group

Regulations in Japan

Not applicable Regulatory

Information by Road

or Rail

Regulatory

Conform to the provisions of the Ship Safety Law.

Information by Sea

UN No. Proper Shipping

Name.

1263 **PAINT**

1263

PAINT

Class Packing Group

Π Marine Pollutant Not applicable Transport in bulk Not applicable

3

according to **MARPOL**

73/78, Annex II, and the IBC code

Regulatory

Conform to the provisions of the Ship Safety Law.

Information by Air

UN No. 1263 Proper Shipping **PAINT**

Name.

Class Packing Group II Emergency Response Guide Number

Not applicable

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
Emergency Phone 048-928-6668

Mumbar

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

Hazards

Health Hazards

Flammable liquids Category 2

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

Hazards

Hazard to the aquatic environment (acute hazard)

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 eve 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 Precautionary Statements

Wear protective gloves, eye protection and face

protection.(P280)

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 Precautionary Statements

IF INHALED: Remove to fresh air and keep at rest

in a position 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)

Storage Precautionary Statements

Store in a well-ventilated place keeping container

tightly closed.(P403+P233)

Store locked up.(P405)

Disposal Precautionary Statements

Dispose of contents and container in accordance with local, regional and national regulations (to be

CAS RN

specified).(P501)

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance

Chemical Name or

or Mixture

Concentration or Its	Formula	ENCS No./ISHL No.			
Ranges	Formula	ENCS No.	ISHL No.		
70.59%	CH3CH2O	(2)-202	Existing		
	Н				

Generic Name	Ranges		ENCS No.	ISHL No.	0.10.1
Ethanol	70.59%	CH3CH2O	(2)-202	Existing	64-17-5
		H			
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

mixture

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.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Environmental

Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation 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.

Stop leak if you can do it without risk.

Methods and Equipment for Containment and Cleaning up

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

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

Section 8 - EXPOSURE CONTROLS /

PERSONAL PROTECTION".

Handling

Precautions for Safe 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 eves.

Handle at a well-ventilated place.

Protect from high temperature and direct sunlight.

Prevents Handling of Refer to "Section 10 - STABILITY AND

REACTIVITY". Imcompatible

Substances or **Mixtures**

Specific Hygine

Wash hand thoroughly after handling.

Measures

Storage Precautionary

Statements

Technical Measures

The storage facility should be provided with 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.

Use containers prescribed in the "Fire Service Material Used in Packaging/Container Law (Japan)" and the "UN Transport Regulations".

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Good general ventilation should be sufficient to **Engineering Controls**

control airborne levels.

Personal Protective

Equipment

Respiratory Protection

Wear an adequate protective apparatus for

respiratory organs. Wear protective gloves.

Hand Protection Eye Protection Wear eye protection.

Protection glasses (ordinary glasses, ordinary

glasses with side shields, and goggles).

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State liauid Appearance

Form liquid Colour red

Odour alcoholic

Odour threshold No data available pΗ No data available

Melting Point/Freezing No data available

Point

Initial Boiling Point and No data available

Boiling Ranges

Flash Point 7.4°C (Tag Closed Cup)

Evaporation Rate

Flammability (solid, gas)

Flammability or Explosive Lower Limit

No data available

No data available

No data available

Limits

Upper Limit No data available

Vapour Pressure

Vapour Density

Specific Gravity (Density)

Partition Coefficient: n
No data available

No data available

No data available

Octanol/Water

Auto-Ignition No data available Decomposition No data available

Temperature

Viscosity No data available Kinematic viscosity No data available

Section 10 - STABILITY AND REACTIVITY

Reactivity

Chemical stability

Possibility of Hazardous

No data available

No data available

Reaction

Conditions to Avoid No data available Imcompatible Substances No data available

or Mixtures

Hazardous Decomposition No data available

Products

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

No information available

Skin Corrosion/Irritation

No data available

Serious eye damage/eye

No data available

irritation

Respiratory or Skin No data available

Sensitization

Germ Cell Mutagenicity

Carcinogenicity

Reproductive Toxicity

Specific target organ

No data available
No data available
No data available

toxicity (single exposure)

Specific target organ No data available

toxicity (repeated

exposure)

Aspiration Hazard No data available

Section 12 - ECOLOGICAL INFORMATION

Hazard to the aquatic No data available

environment (acute

Hazard to the aquatic No data available

environment (long-term

hazard)

Hazard to the ozone layer No data available

Section 13 - DISPOSAL CONSIDERATIONS

Residual Waste 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.

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 INFORMATION

International Regulations Re

Regulatory

Conform to the provisions of IMO.

Information by Sea

UN No. 1263
Proper Shipping PAINT
Class 3
Packing Group II

Marine Pollutant Not applicable Transport in bulk Not applicable

according to MARPOL

73/78,Annex II,and the IBC code

Regulatory Conform to the provisions of ICAO/IATA.

Information by Air

UN No. 1263
Proper Shipping PAINT
Class 3
Packing Group II

Regulations in Japan

Regulatory Not applicable

Information by Road

or Rail

Regulatory Conform to the provisions of the Ship Safety Law.

Information by Sea

UN No. 1263 Proper Shipping PAINT

Name.

Class 3 Packing Group II

Marine Pollutant Not applicable Transport in bulk Not applicable

according to MARPOL

73/78,Annex II, and the IBC code

Regulatory Conform to the provisions of the Ship Safety Law.

Information by Air

UN No. 1263 Proper Shipping PAINT

Name. Class

3

Π

Packing Group

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.

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
Fax Number 048-928-9190
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

Hazards

Health Hazards

Flammable liquids Category 2

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 Hazards

Hazard to the aquatic environment (acute hazard)

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 H320 Causes eye irritation

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

effects

Danger

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 Precautionary Statements

Wear protective gloves, eye protection and face

protection.(P280)

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 Precautionary Statements IF INHALED: Remove to fresh air and keep at rest

in a position 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)

Storage Precautionary Statements Store in a well-ventilated place keeping container tightly closed.(P403+P233)

Store locked up.(P405)

Disposal Precautionary

Statements

Dispose of contents and container in accordance with local, regional and national regulations (to be

specified).(P501)

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance

mixture

or Mixture

OI WIIXCUIO					
Chemical Name or	Concentration or Its	Formula	ENCS No./ISHL No.		CAS RN
Generic Name	Ranges	i oriiiuia	ENCS No.	ISHL No.	UAS INI
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.

Rinse mouth. Do NOT induce vomiting. Ingestion

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**

Environmental

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation 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.

Stop leak if you can do it without risk.

Methods and Equipment for Containment and Cleaning up

> Small spills; cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with

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. Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevention Measures for Secondary Accidents

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

Section 8 - EXPOSURE CONTROLS /

PERSONAL PROTECTION".

Handling

Precautions for Safe 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 eves.

Handle at a well-ventilated place.

Protect from high temperature and direct sunlight.

Prevents Handling of Refer to "Section 10 - STABILITY AND Imcompatible

REACTIVITY".

Substances or Mixtures

Specific Hygine

Wash hand thoroughly after handling.

Measures

Storage Precautionary

Statements

Technical Measures

The storage facility should be provided with 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 CONTROLS / 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.

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 PROPERTIES

Appearance Physical State liquid

Form liauid Colour blue

Odour alcoholic

Odour threshold No data available pΗ No data available Melting Point/Freezing No data available

Point

Initial Boiling Point and No data available

Boiling Ranges

Flash Point 7.4°C (Tag Closed Cup)

No data available **Evaporation Rate** Flammability (solid, gas) No data available Flammability or Explosive Lower Limit No data available

Limits

Upper Limit No data available Vapour Pressure No data available Vapour Density No data available Specific Gravity (Density) No data available

Partition Coefficient : n-No data available

Octanol/Water

No data available Auto-Ignition Decomposition No data available

Temperature

No data available Viscosity Kinematic viscosity No data available

Section 10 - STABILITY AND REACTIVITY

Reactivity No data available Chemical stability No data available Possibility of Hazardous No data available

Reaction

Conditions to Avoid No data available Imcompatible Substances No data available

or Mixtures

Hazardous Decomposition No data available

Products

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity No information available

Skin Corrosion/Irritation No data available Serious eye damage/eye No data available

irritation

No data available Respiratory or Skin

Sensitization

No data available Germ Cell Mutagenicity Carcinogenicity No data available Reproductive Toxicity No data available Specific target organ No data available

toxicity (single exposure)

Specific target organ No data available

toxicity (repeated

exposure)

No data available Aspiration Hazard

Section 12 - ECOLOGICAL INFORMATION

No data available Hazard to the aquatic

environment (acute

Hazard to the aquatic No data available

environment (long-term

hazard)

Hazard to the ozone layer No data available

Section 13 - DISPOSAL CONSIDERATIONS

Residual Waste Disposal should be in accordance with applicable

regulations and standards by the respective local

governments.

Contaminated Container

and Packaging

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 INFORMATION

International Regulations Regulatory Conform to the provisions of IMO.

Information by Sea

UN No. 1263
Proper Shipping PAINT
Class 3

Packing Group II

Marine Pollutant Not applicable

Transport in bulk Not applicable

according to MARPOL

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 II

Regulations in Japan

Regulatory

Not applicable

Information by Road

or Rail

Regulatory

Conform to the provisions of the Ship Safety Law.

Information by Sea

UN No. 1263 Proper Shipping PAINT

Name.

Class 3 Packing Group II

Marine Pollutant Not applicable Transport in bulk Not applicable

according to MARPOL

73/78,Annex II, and the IBC code

Regulatory Conform to the provisions of the Ship Safety Law.

Information by Air

UN No. 1263 Proper Shipping PAINT

Name.

Class 3 Packing Group II

Emergency Response Guide Number

Not applicable

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

No information available

Other Property

This information is furnished without warranty express or implied.

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