SAFETY DATA SHEET(SDS)

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1.Identification of the substance or mixture and of the manufacturer

GHS product identifier	Spray AIR URETHANE EN-971 SHINY BLACK META
Manufacturer name	ISAMU PAINT CO.,LTD.
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Section concerned	Quality control division
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Product Information Usage

Aerosol acrylic urethane coating

Recommended use

For industrial use

2.Hazard(s) identification

GHS Classification

Aerosols:	Category 1
Flammable liquids:	Category 2
Acute Toxicity	
Oral:	Not classified
Dermal:	Not classified
Inhalation: Gases:	No classification
Inhalation: Vapours:	Not classified
Inhalation: Dusts, Mists:	Not classified
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Sensitization	
Respiratory	Category 1
Skin	Category 1
Germ cell mutagenicity	Not classified
Carcinogenicity	Category 2
Reproductive toxicity	Category 1
Specific target organ toxicity - Single exposure	Category 2
Specific target organ toxicity - Repeated exposure	Category 2
Aspiration hazard	Classification not possible
Hazardous to the aquatic environment	
Short-term(acute) aquatic hazard:	Category 2
Long-term(chronic) aquatic hazard:	Category 3
Hazardous to the ozone layer	Classification not possible

Label Elements

Danger

Hazard statement:

May cause an allergic skin reaction
Highly flammable liquid and vapour
Causes serious eye irritation
Extremely flammable aerosol
Toxic to aquatic life
May damage fertility or the unborn child
May cause damage to organs (state below for available organ data)
May cause damage to organs through prolonged or repeated exposure (state below for available organ data)
Harmful to aquatic life with long lasting effects
Suspected of causing cancer
Causes skin irritation
Pressurized container: may burst if heated
Causes damage to liver
Causes damage to respiratory system
Causes damage to kidney
Causes damage to systemic toxicity
Causes damage to central nervous system
May causes damage to central nervous system
May cause respiratory irritation
May cause drowsiness or dizziness
Causes damage to respiratory system through prolonged or repeated exposure
Causes damage to nervous system through prolonged or repeated exposure
Causes damage to kidney through prolonged or repeated exposure
Causes damage to central nervous system through prolonged or repeated exposure
Causes damage to lung through prolonged or repeated exposure
Causes damage to lung if inhaled through prolonged or repeated exposure
May causes damage to liver through prolonged or repeated exposure
May causes damage to blood vessel through prolonged or repeated exposure
May causes damage to spleen through prolonged or repeated exposure

Precaution:

≪Prevention≫

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Ground/bond container and receiving equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Pressurized container: Do not pierce or burn, even after use.
Do not spray on an open flame or incandescent material of high temperature.
Wear protective gloves/protective clothing/eye protection/suitable respiratory

equipment.

Wear respiratory protection.

Do not breathe dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workspace.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Do not mix with other foreign materials.

If this is not the intended use, avoid release to the environment.

≪Response≫

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

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

If exposed or concerned: Get medical advice/attention.

IF ON SKIN(or Hair) : Take off immediately all contaminated clothing. Rinse skin with water/shower.Call a POISON CENTER or doctor/physician, if you feel unwell.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists, get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.Do NOT induce vomiting.Rinse mouth.

In case of fire: Use carbon dioxide, dry chemical powder, foam to extinction.

Get medical advice/attention, if you feel unwell.

≪Storage≫

Store in a well-ventilated place. Keep cool.Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 oC/122 oF.

Keep out of reach of children.

≪Disposal≫

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

Other hazards which do not result in classification

Potential health effects

May cause an allergic skin reaction.

Physical and Chemical hazards

Contains inflammable gas under pressure; may explode if heated,shocked

Contains inflammable gas. When gas stagnates, there is fear of explosion

Very inflammable liquid. Remaining gas may cause explosion.

3.Composition/information on ingredients

Distinction of chemical or mixture:

Mixture

Hazardous,harmful element:

Chemical Name	Composition	CAS No.	Japanese Industrial Safety and Health Law (Article 57-2 of the Law)	Japanese PRTR Law
Dimethyl ether	30 ～ 40%	115-10-6	―	―

Butane	5 ～ 10%	106-97-8	Labeling／MSDS require	―
Propane	0.1 ～ 1%	74-98-6	―	―
Pentane	0.1 ～ 1%	109-66-0	Labeling／MSDS require	―
Butyl acetate	5 ～ 10%	123-86-4	Labeling／MSDS require	―
Toluene	5 ～ 10%	108-88-3	Labeling／MSDS require	1-300
Acrylic resin	10 ～ 20%	Confidential	―	―
Xylene,mixed isomers, pure	5 ～ 10%	1330-20-7	Labeling／MSDS require	1-80
Ethylbenzene	1 ～ 5%	100-41-4	Labeling／MSDS require	1-53
Polyisocyanate	1 ～ 5%	28182-81-2	―	―
2-Propyl, 1-methoxy-, acetate	1 ～ 5%	108-65-6	―	―
Ethyl acetate	1 ～ 5%	141-78-6	Labeling／MSDS require	―
Ethyl 3-ethoxypropanoate	1 ～ 5%	763-69-9	―	―
Silicon dioxide(amorphous)	1 ～ 5%	7631-86-9	Labeling／MSDS require	―
Dibutan-1-yl phthalate	1 ～ 5%	84-74-2	Labeling／MSDS require	1-354
Naphtha (petroleum), hydrotreated heavy	0.1 ～ 1%	64742-48-9	Labeling／MSDS require	―
3-Methoxybutyl acetate	0.1 ～ 1%	4435-53-4	―	―
Carbon black	0.1 ～ 1%	1333-86-4	Labeling／MSDS require	―
Cellulose, nitrate	0.1 ～ 1%	9004-70-0	Labeling／MSDS require	―
Solvent naphtha (petroleum), light aromatic	0.1 ～ 1%	64742-95-6	Labeling／MSDS require	―
C.I.Pigment Blue 15	0.1 ～ 1%	12239-87-1	Labeling／MSDS require	―
Titanium dioxide	0.1 ～ 1%	13463-67-7	Labeling／MSDS require	―
Mica-group minerals	0.1 ～ 1%	12001-26-2	―	―
Additive	0.1 ～ 1%	Confidential	―	―
1,2,4-Trimethylbenzene	0.1～1%	95-63-6	Labeling／MSDS require	1-296
2-Propanol	0.1 ～ 1%	67-63-0	Labeling／MSDS require	―
Hydrocarbons, C8-1-0	0.1 ～ 1%	92128-67-1	―	―
Aluminium oxide	0.1 ～ 1%	1344-28-1	Labeling／MSDS require	―
Ethane-1,2-diyl diacetate	0.1 ～ 1%	111-55-7	―	―

4.First-aid measures

IF INHALED:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Remove the victim from the contamination immediately to fresh air and keep the victim warm and quiet.

In case breathing has stopped, loosen the clothing, secure respiratory tract, and conduct artificial breathing

Prevent from swallowing the vomiting.

Receive the treatment of a doctor immediately.

IF ON SKIN (or hair):

Wipe off contacted materials quickly with clothes.

Wash with plenty of soap and water.(Do not use solvent or thinner.)

If skin irritation occurs:Get medical advice/attention.

IF IN EYES:

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

Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED:

Immediately call a POISON CENTER or doctor/physician.

Prevent from swallowing the vomiting.

Rinse mouth. Do NOT induce vomiting.

5.Fire-fighting measures

Suitable extinguishing media:

Carbon Dioxide, Foam

Unsuitable extinguishing media:

Water in a jet.

Specific hazards arising from the chemical:

Not available

Specific fire-fighting measures:

Wear proper protective equipment(fire/flame resistant/retardant clothing etc.).

Eliminate all ignition sources if safe to do so.

Use appropriate extinguishing media.

Cool container with water spray.

Fire-fighting shall be conducted from the windward of the fire as much as possible.

Put out the fire at a long distance from fire, because aerosol cans near fire may cause an explosion.

Special protective actions for fire-fighters:

Not available

6.Accidental release measures

Personal precautions,protective equipment and emergency procedures:

Wear proper protective equipment(Gloves/Protective mask/Protection clothes/Goggle etc.).

Evacuate non-essential personal to safe area.

Extinguish naked flames and remove ignition sources.

Prepare proper fire-extinguisher for the fire.

Environmental precautions:

Pay attention so that the product that leaked is not discharged to the river or sewage, and have adverse effect on the environment.

Methods and materials for containment and cleaning up:

Collect leaking liquid in sealable containers.And remove to safe place.

Dispose of collected leakage in accordance with local/regional/ national/international regulations.

Take up the spill by equipment made of plastics to avoid sparks.

Absorb with sand or other non-combustible material.

Absorb remaining liquid in sand or inert absorbent and remove to safe place.

Prevention of secondary disaster:

Not available

7.Handling and storage

Precautions for safe handling

Handle in a place with good ventilation.

Keep container tightly closed.

Prohibit the use of high temperature objects, sparks, and fire in the vicinity of the product.

Equipment should be grounded and bonded. Use explosion proof electrical equipment.

Use only non-sparking tools.

Use antistatic working wear and shoes in operation.

Keep used-clothes, paint sludge and sprayed dust in water for waste disposal.

Use adequate exhaust ventilation in closed area and ware proper protective equipment during using this materials.

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

Wash hands/face thoroughly after handling.

Do not use in the place of 40℃ or more.

Do not handle near the fire.

Do not heart above 40℃.

Do not use more than 30 seconds continuously.

May cause inflammation and frostbite by skin contact to DME gas.

Anyone who has shown symptoms of asthma due to this substance should avoid all further contact with this substance.

Conditions for safe storage, including any incompatibilities

Protect from sunlight.

Store in a well-ventilated place.

Keep away from fire and heat.

Store at temperatures not exceeding 40 ℃.

Store in a dry place.

8.Exposure controls/personal protection

Equipment requirement:

Use non-spark closed type equipment.

Prevent remaining vapors with adequate ventilation.

Equipment should be grounded and bonded in case of transport, suction and stirring liquids.

Don't use equipment having high temperature and source of fire around handing this materials.

In poor ventilated area, use automatic spraying equipment and adequate ventilator to avoid direct workers' exposure to solvent vapors.

In the closed area of tank, use ventilator effective to closed and bottom area.

Control parameters:

	Administrative levels	Threshold limit value
Butane	Not applicable	500ppm JSOH 800ppm ACGIH(TWA)
Propane	Not applicable	1000ppm ACGIH(TWA)

	Administrative levels	Threshold limit value
Pentane	Not applicable	300ppm JSOH 880mg/m3 JSOH 600ppm ACGIH(TWA)
Butyl acetate	150ppm	100ppm JSOH 150ppm ACGIH(TWA) 200ppm ACGIH(STEL)
Toluene	20ppm	50ppm JSOH 20ppm ACGIH(TWA)
Xylene,mixed isomers, pure	50ppm	50ppm JSOH 100ppm ACGIH(TWA) 150ppm ACGIH(STEL)
Ethylbenzene	20ppm	50ppm JSOH 20ppm ACGIH(TWA)
Ethyl acetate	200ppm	200ppm JSOH 400ppm ACGIH(TWA)
Silicon dioxide(amorphous)	Not applicable	8mg/m3 JSOH 10mg/m3 ACGIH(TWA)
Dibutan-1-yl phthalate	Not applicable	5mg/m3 JSOH 5mg/m3 ACGIH(TWA)
Naphtha (petroleum), hydrotreated heavy	Not applicable	300ppm ACGIH(TWA)
Carbon black	Not applicable	3.5mg/m3 ACGIH(TWA) 1（Respirable dust）mg/m3 JSOH 4（Total dust）mg/m3 JSOH
C.I.Pigment Blue 15	Not applicable	8（Dusts Class3)mg/m3 JSOH 10mg/m3 ACGIH(TWA)
Titanium dioxide	Not applicable	10mg/m3 ACGIH(TWA)
Mica-group minerals	Not applicable	3mg/m3 ACGIH(TWA)
1,2,4-Trimethylbenzene	Not applicable	25ppm JSOH 25ppm ACGIH(TWA)
2-Propanol	200ppm	400ppm JSOH 200ppm ACGIH(TWA) 400ppm ACGIH(STEL)
Aluminium oxide	Not applicable	10mg/m3 ACGIH(TWA)

Personal Protective Equipment(PPE)

Respiratory protection:

Use a respiratory protection mask for organic solvent gasses.

Use airline respirator at the closed place.

When spraying, wear an appropriate protective mask.

Hands protection:

Wear proper protective gloves(solvent / chemical resistance).

Eye/face protection:

Wear protective glasses.

Skin protection:

Wear protective gloves/protective clothing.

9.Physical and chemical properties

Appearance (physical state):	Liquid
Appearance (color):	Black
Odor threshold:	Solvent odour
pH:	No data
Boiling point:	110.6℃ （-42.1℃）
Boiling range:	110.6～141℃ （-42.1～36℃）

Flash point:	8℃ （-104℃）
Lower flammability or explosive limits:	1.0vol% （1.4vol%）
Upper flammability or explosive limits:	7.5vol% （27vol%）
Vapor pressure:	2900Pa （435600Pa）
Density:	0.98g/cm3 （0.64g/cm3）
Auto-ignition temperature:	425℃ （287℃）
Remarks:	（ ）:Property of propellant

10.Stability and reactivity

Reactivity/Chemical stability:

Product is considered stable under normal storage and handling conditions.

Possibility of hazardous reactions:

Not determined.

Conditions to avoid:

Store at temperatures not exceeding 40 ℃. Keep cool.

Incompatible materials:

Strong oxidizing reagents, water, amines, acids, bases, and alcohols

Hazardous decomposition products:

In combustion: Generate dangerous gasses such as CO, low-molecular weight monomers,NOx gasses.

11.Toxicological information

	Acute Toxicity Oral	Acute Toxicity Dermal	Acute Toxicity Inhalation: Gases	Acute Toxicity Inhalation: Vapours	Acute Toxicity Inhalation: Dusts, Mists
Dimethyl ether	Classification not possible	Classification not possible	Not classified	No classification	No classification
Butane	No classification	No classification	Not classified	No classification	No classification
Propane	No classification	No classification	Not classified	No classification	No classification
Pentane	Not classified	Classification not possible	No classification	Not classified	Classification not possible
Butyl acetate	Not classified	Not classified	No classification	Classification not possible	Classification not possible
Toluene	Not classified	Not classified	No classification	Category 4	Classification not possible
Acrylic resin	Not classified	Not classified	No classification	No classification	Not classified
Xylene,mixed isomers, pure	Not classified	Not classified	No classification	Not classified	Classification not possible
Ethylbenzene	Not classified	Not classified	No classification	Category 4	Classification not possible
Polyisocyanate	Not classified	Not classified	No classification	Classification not possible	Classification not possible
2-Propyl, 1-methoxy-, acetate	Not classified	Not classified	No classification	Classification not possible	Classification not possible
Ethyl acetate	Not classified	Not classified	No classification	Category 4	Classification not possible
Ethyl 3-ethoxypropanoate	Not classified	Not classified	No classification	Classification not possible	Classification not possible

	Acute Toxicity Oral	Acute Toxicity Dermal	Acute Toxicity Inhalation: Gases	Acute Toxicity Inhalation: Vapours	Acute Toxicity Inhalation: Dusts, Mists
Silicon dioxide(amorphous)	Not classified	Not classified	No classification	No classification	Classification not possible
Dibutan-1-yl phthalate	Not classified	Not classified	No classification	Classification not possible	Not classified
Naphtha (petroleum), hydrotreated heavy	Not classified	Not classified	No classification	Not classified	Not classified
3-Methoxybutyl acetate	Not classified	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Carbon black	Not classified	Classification not possible	No classification	Classification not possible	Classification not possible
Cellulose, nitrate	Not classified	Classification not possible	No classification	Classification not possible	Classification not possible
Solvent naphtha (petroleum), light aromatic	Not classified	Not classified	No classification	Classification not possible	Classification not possible
C.I.Pigment Blue 15	Not classified	Classification not possible	No classification	No classification	Classification not possible
Titanium dioxide	Not classified	Not classified	No classification	Classification not possible	Not classified
Mica-group minerals	Classification not possible	Classification not possible	No classification	No classification	Classification not possible
Additive	Classification not possible	Classification not possible	No classification	No classification	Classification not possible
1,2,4-Trimethylbenzene	Not classified	Classification not possible	No classification	Classification not possible	Classification not possible
2-Propanol	Not classified	Not classified	No classification	Not classified	Classification not possible
Hydrocarbons, C8-1-0	Not classified	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Aluminium oxide	Not classified	Classification not possible	No classification	Classification not possible	Classification not possible
Ethane-1,2-diyl diacetate	Not classified	Not classified	No classification	Classification not possible	Classification not possible

	Skin corrosion/irritation	Serious eye damage/eye irritation	Respiratory sensitization	Skin sensitization	Germ cell mutagenicity
Dimethyl ether	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Butane	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Propane	Not classified	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Pentane	Not classified	Category 2B	Classification not possible	Not classified	Not classified
Butyl acetate	Not classified	Category 2B	Classification not possible	Not classified	Classification not possible
Toluene	Category 2	Category 2B	Classification not possible	Not classified	Not classified
Acrylic resin	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Xylene,mixed isomers, pure	Category 2	Category 2A	Classification not possible	Classification not possible	Not classified
Ethylbenzene	Not classified	Category 2B	Classification not possible	Classification not possible	Not classified
Polyisocyanate	Not classified	Category 2B	Category 1	Category 1	Classification not possible

	Skin corrosion/irritation	Serious eye damage/eye irritation	Respiratory sensitization	Skin sensitization	Germ cell mutagenicity
2-Propyl, 1-methoxy-, acetate	Not classified	Category 2B	Classification not possible	Not classified	Classification not possible
Ethyl acetate	Not classified	Category 2B	Classification not possible	Not classified	Not classified
Ethyl 3-ethoxypropanoate	Not classified	Category 2B	Classification not possible	Classification not possible	Classification not possible
Silicon dioxide(amorphous)	Not classified	Category 2B	Classification not possible	Classification not possible	Not classified
Dibutan-1-yl phthalate	Not classified	Not classified	Classification not possible	Category 1	Not classified
Naphtha (petroleum), hydrotreated heavy	Category 2	Not classified	Classification not possible	Not classified	Classification not possible
3-Methoxybutyl acetate	Not classified	Not classified	Classification not possible	Classification not possible	Not classified
Carbon black	Not classified	Not classified	Classification not possible	Classification not possible	Classification not possible
Cellulose, nitrate	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Solvent naphtha (petroleum), light aromatic	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
C.I.Pigment Blue 15	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Titanium dioxide	Not classified	Category 2B	Classification not possible	Classification not possible	Not classified
Mica-group minerals	Not classified	Not classified	Classification not possible	Classification not possible	Classification not possible
Additive	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
1,2,4-Trimethylbenzene	Category 2	Category 2B	Classification not possible	Classification not possible	Classification not possible
2-Propanol	Not classified	Category 2A	Classification not possible	Classification not possible	Not classified
Hydrocarbons, C8-1-0	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Aluminium oxide	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Ethane-1,2-diyl diacetate	Not classified	Category 2B	Classification not possible	Classification not possible	Classification not possible

	Carcinogenicity	Reproductive toxicity	Specific target organ toxicity - Single exposure	Specific target organ toxicity - Repeated exposure	Aspiration hazard
Dimethyl ether	Classification not possible	Classification not possible	Category 3	Classification not possible	Classification not possible
Butane	Classification not possible	Classification not possible	Category 3	Classification not possible	No classification
Propane	Classification not possible	Classification not possible	Category 3	Classification not possible	No classification
Pentane	Classification not possible	Not classified	Category 3	Not classified	Category 1
Butyl acetate	Classification not possible	Classification not possible	Category 2	Classification not possible	Classification not possible
Toluene	IARC(3)	Category 1A	Category 1	Category 1	Category 1
Acrylic resin	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible

	Carcinogenicity	Reproductive toxicity	Specific target organ toxicity - Single exposure	Specific target organ toxicity - Repeated exposure	Aspiration hazard
Xylene,mixed isomers, pure	IARC(3)	Category 1B	Category 1	Category 1	Not classified
Ethylbenzene	IARC(2B)	Category 1B	Category 2	Classification not possible	Category 1
Polyisocyanate	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
2-Propyl, 1-methoxy-, acetate	Classification not possible	Not classified	Category 3	Classification not possible	Classification not possible
Ethyl acetate	Classification not possible	Classification not possible	Category 3	Classification not possible	Classification not possible
Ethyl 3-ethoxypropanoate	Classification not possible	Classification not possible	Category 3	Classification not possible	Classification not possible
Silicon dioxide(amorphous)	IARC(3)	Classification not possible	Classification not possible	Classification not possible	No classification
Dibutan-1-yl phthalate	Not classified	Category 2	Category 1	Category 1	Classification not possible
Naphtha (petroleum), hydrotreated heavy	Classification not possible	Classification not possible	Category 3	Classification not possible	Category 1
3-Methoxybutyl acetate	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Carbon black	IARC(2B)	Classification not possible	Classification not possible	Category 1	Classification not possible
Cellulose, nitrate	Classification not possible	Classification not possible	Category 3	Classification not possible	Classification not possible
Solvent naphtha (petroleum), light aromatic	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
C.I.Pigment Blue 15	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Titanium dioxide	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Mica-group minerals	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Additive	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
1,2,4-Trimethylbenzene	Classification not possible	Classification not possible	Category 3	Category 2	Category 1
2-Propanol	IARC(3)	Category 2	Category 1	Category 2	Not classified
Hydrocarbons, C8-1-0	Classification not possible	Classification not possible	Classification not possible	Classification not possible	No classification
Aluminium oxide	Not classified	Classification not possible	Category 3	Category 1	Classification not possible
Ethane-1,2-diyl diacetate	Classification not possible	Classification not possible	Classification not possible	Classification not possible	No classification

12.Ecological information

Toxicity:

No data

Persistence and degradability:

No data

Bioaccumulative potential:

No data

Mobility in soil:

No data

Other adverse effects:

The product should not be allowed to enter drains or water courses.

Hazardous to the aquatic environment/Hazardous to the ozone layer:

	Short-term(acute) aquatic hazard	Long-term(chronic) aquatic hazard	Hazardous to the ozone layer
Dimethyl ether	Not classified	Not classified	Classification not possible
Butane	Classification not possible	Classification not possible	Classification not possible
Propane	Classification not possible	Classification not possible	Classification not possible
Pentane	Category 2	Not classified	Classification not possible
Butyl acetate	Category 3	Not classified	Classification not possible
Toluene	Category 2	Category 3	Classification not possible
Acrylic resin	Classification not possible	Classification not possible	Classification not possible
Xylene,mixed isomers, pure	Category 2	Category 2	Classification not possible
Ethylbenzene	0.4 mg/l	Not classified	Classification not possible
Polyisocyanate	Classification not possible	Classification not possible	Classification not possible
2-Propyl, 1-methoxy-, acetate	Not classified	Not classified	Classification not possible
Ethyl acetate	Not classified	Not classified	Classification not possible
Ethyl 3-ethoxypropanoate	Not classified	Not classified	Classification not possible
Silicon dioxide(amorphous)	Not classified	Not classified	Classification not possible
Dibutan-1-yl phthalate	0.46 mg/l	Not classified	Classification not possible
Naphtha (petroleum), hydrotreated heavy	Category 2	Category 2	Classification not possible
3-Methoxybutyl acetate	Classification not possible	Classification not possible	Classification not possible
Carbon black	Not classified	Classification not possible	Classification not possible
Cellulose, nitrate	Not classified	Not classified	Classification not possible
Solvent naphtha (petroleum), light aromatic	Classification not possible	Classification not possible	Classification not possible
C.I.Pigment Blue 15	Classification not possible	Classification not possible	Classification not possible
Titanium dioxide	Classification not possible	Classification not possible	Classification not possible
Mica-group minerals	Classification not possible	Classification not possible	Classification not possible
Additive	Classification not possible	Classification not possible	Classification not possible
1,2,4-Trimethylbenzene	Category 2	Category 2	Classification not possible

	Short-term(acute) aquatic hazard	Long-term(chronic) aquatic hazard	Hazardous to the ozone layer
2-Propanol	Not classified	Not classified	Classification not possible
Hydrocarbons, C8-1-0	Classification not possible	Classification not possible	Classification not possible
Aluminium oxide	Classification not possible	Classification not possible	Classification not possible
Ethane-1,2-diyl diacetate	Classification not possible	Classification not possible	Classification not possible

13.Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal

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

Don't wash away the used for cleaning of vessels and equipment into shower or water way.

The wastes producing from process of water refining and of incineration should be disposed of in accordance with governmental laws and environmental control regulations or asked to dispose with licensed special company.

Waste paints and opened containers should be asked to dispose with licensed industrial waste treatment company.

DO NOT incinerate or puncture aerosol cans.

Disposal of any contaminated packaging

Remove the contents completely before disposing of them.

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

14.Transport information

Special precautions for user:

See Section 7.

Verify that there is no damage or leakage of the containers, and load them so that there are no shock, tumbling, dropping, or container damages, and conduct load collapse prevention securely.

Keep below 40℃ and avoid overturning and falling.

Regulation by Japanese law:

Transport this product in compliance with the Firefighting Law, Law of Industrial Safety & Hygiene and Poisonous & Deleterious Material Control Law,if any.

According to providing in IMDG Code/Japanese Ship Safety Act.

According to providing in ICAO TI/Japanese Civil Aeronautics Act.

UN Number:

1950

UN Proper shipping name:

IAEROSOLS

Transport Hazard class(es):

126 GASES - COMPRESSED or LIQUEFIED (Including Refrigerant Gases)

UN classification:

Class 2.1 : Flammable gases

Packing group, if applicable:

Not applicable

Marine pollutant:

It doesn't correspond to regulations.

Special precautions which a user needs to be aware of or needs to comply with in connection with

transport or conveyance either within or outside their premises:

It doesn't correspond to regulations.

15.Regulatory information

<Products>

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 1-4 Inflammable substance

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 1-5 Combustible gas

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 6-2 Article 1, Item 1, Sub-item 4 of Organic Solvent Poisoning Prevention Regulation Class 2 organic solvent

Japanese Ordinance on the Prevention of the Hazards due to Specified Chemical Substances Article 2 Class 2 substance

Japanese Fire Services Act Article 2 Hazardous Substance Attached Table Class 4 Inflammable liquid. (No. 1 Petroleum / Non-water-soluble liquid)

Japanese Port and Harbor Law Enforcement Regulation Article 12 Hazardous Material Notification High pressure gas

Japanese Air Navigation Law Enforcement Ordinance Article 194 Hazardous Material Notification Attached Table 1 High Pressure Gas

Japanese Law High Pressure Gas Safety Act Article 3 Item 8 , Exemptions.

We are not able to check up the regulatory information in regard to the substances in your country or region,therefor, we request this matter would be filled by your responsibility.

<Butyl acetate>

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 6-2 Article 1, Item 1, Sub-item 4 of Organic Solvent Poisoning Prevention Regulation Class 2 organic solvent

<Toluene>

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 6-2 Article 1, Item 1, Sub-item 4 of Organic Solvent Poisoning Prevention Regulation Class 2 organic solvent

Japanese Foul Odor Prevention Law Enforcement Ordinance Article 1. Specified foul odor substance.

Japanese Chemical Substances Control Law, Article 2, section 5, Chemical substances requiring prior assessment

<Xylene,mixed isomers, pure>

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 6-2 Article 1, Item 1, Sub-item 4 of Organic Solvent Poisoning Prevention Regulation Class 2 organic solvent

Japanese Foul Odor Prevention Law Enforcement Ordinance Article 1. Specified foul odor substance.

Japanese Chemical Substances Control Law, Article 2, section 5, Chemical substances requiring prior assessment

<Ethylbenzene>

Japanese Ordinance on the Prevention of the Hazards due to Specified Chemical Substances Article 2 Class 2 substance

Japanese Chemical Substances Control Law, Article 2, section 5, Chemical substances requiring prior assessment

<Ethyl acetate>

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 6-2 Article 1, Item 1, Sub-item 4 of Organic Solvent Poisoning Prevention Regulation Class 2 organic solvent

Japanese Foul Odor Prevention Law Enforcement Ordinance Article 1. Specified foul odor substance.

<Naphtha (petroleum), hydrotreated heavy>

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 6-2 Article 1, Item 1, Sub-item 5 of Organic Solvent Poisoning Prevention Regulation Class 3 organic solvent

<Solvent naphtha (petroleum), light aromatic>

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 6-2 Article 1, Item 1, Sub-item 5 of Organic Solvent Poisoning Prevention Regulation Class 3 organic solvent

<1,2,4-Trimethylbenzene>

Japanese Chemical Substances Control Law, Article 2, section 5, Chemical substances requiring prior assessment

<2-Propanol>

Japanese Law on Industrial Safety and Hygiene Enforcement Ordinance Attached Table 6-2 Article 1, Item 1, Sub-item 4 of Organic Solvent Poisoning Prevention Regulation Class 2 organic solvent

Japanese Chemical Substances Control Law, Article 2, section 5, Chemical substances requiring prior assessment

16.Other information

Reference

Chemical Risk Information Platform (CHRIP) (National Institute of Technology and Evaluation(NITE))

Globally Harmonized System of classification and Labeling of chemicals,(3rd ed.,2009),UN SDS & Labeling guide book(rev. 1st ed., March 2007),JPMA

Chemical data base for paint(5th ed.,Mar. 2009)(1st ed.,May 2007),JPMA

International Chemical Safety Cards(ICSC)

Supplier's SDS

This information is contained in this safety data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.