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Revision Number 3

Japan / English

**1. PRODUCT AND COMPANY IDENTIFICATION****Product identifier****Product Name** VariDur 3003 Liquids 1 & 2**Product Code(s)** 20-3532, 20-3535, 20-3536**(M)SDS Number** 1346124\_J**Other means of identification****Synonyms** No information available**Registration Number(s)** No information available**Recommended use of the chemical and restrictions on use****Recommended Use** Laboratory Use Only**Uses advised against** No information available**Details of the supplier of the safety data sheet****Manufacturer** Buehler**Manufacturer Address** Loop-X 6th Floor 3-9-15  
kaigan Minato-ku, Tokoyo 108-0022  
www.buehler.com/Japan**Phone number** +81 (0)3 5439 5077**E-mail Address** info.japan@buehler.com**Legal Entity** ITW Japan KK**Legal Entity Address** 1-4-4, Kitasuna, Koto-ku, Tokyo**Emergency telephone number**

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**2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable liquids	Category 3
Aspiration toxicity	Category 1
Acute toxicity - Inhalation (Gases)	Category 4

Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 1
Category 1 Central nervous system.	
Category 2 blood system.	
Category 3 Respiratory irritation, Narcotic effects.	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 Central nervous system Respiratory system Nervous system blood system Liver	
Category 2 Kidneys.	
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

**Label elements****Signal word****Danger****Hazard statements**

- H225 - Highly flammable liquid and vapor
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H341 - Suspected of causing genetic defects
- H351 - Suspected of causing cancer
- H360 - May damage fertility or the unborn child
- H411 - Toxic to aquatic life with long lasting effects
  - H370 - Causes damage to the following organs: Central nervous system.
  - H371 - May cause damage to the following organs: blood system.
  - H335 - May cause respiratory irritation
  - H336 - May cause drowsiness or dizziness
  - H372 - Causes damage to the following organs through prolonged or repeated exposure: Central nervous system, Respiratory system, Nervous system, blood system, Liver.
  - H373 - May cause damage to the following organs through prolonged or repeated exposure: Kidneys.

**Precautionary Statements - Prevention**

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- In case of inadequate ventilation wear respiratory protection
- Contaminated work clothing should not be allowed out of the workplace
- Do not breathe dust/fume/gas/mist/vapors/spray
- Do not eat, drink or smoke when using this product

Avoid release to the environment  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 Keep container tightly closed  
 Use explosion-proof electrical/ ventilating/ lighting/ equipment  
 Ground/bond container and receiving equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)  
 IF exposed or concerned: Call a POISON CENTER or doctor  
 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor  
 Do NOT induce vomiting  
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish  
 Collect spillage

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable

**Mixture**

Chemical name	Weight-%	ENCS - Japan Existing and New Chemical Substances	ISHL No.	CAS-No
Methyl methacrylate	10 - 50%	(2)-1036	Present	80-62-6
Styrene	2.5 - 50%	(3)-4	Present	100-42-5
Benzenamine, N,N,4-trimethyl-	0 - 2.5%	(3)-191	Present	99-97-8

**Pollutant Release and Transfer Registry (PRTR)**

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed.

Chemical name	Weight-%	Class	Cabinet order number	Relevant substance, conversion factor
Methyl methacrylate 80-62-6	10 - 50%	Class I designated chemical substance	1-420	
Styrene 100-42-5	2.5 - 50%	Class I designated chemical substance	1-240	

**Industrial Safety and Health Law**

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order

Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

Chemical name	ISHL Notifiable Substances	Threshold Values (%)
Methyl methacrylate 80-62-6	ISHL Notifiable Substances	0.1
Styrene 100-42-5	ISHL Notifiable Substances	0.1

**Poisonous and Deleterious Substances Control Law** Not applicable

#### 4. FIRST AID MEASURES

##### First aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.
<b>Inhalation</b>	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention. Aspiration into lungs can produce severe lung damage. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. If symptoms persist, call a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.
<b>Ingestion</b>	May produce an allergic reaction. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Aspiration hazard if swallowed - can enter lungs and cause damage. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
<b>Symptoms</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Difficulty in breathing. Dizziness. Burning sensation.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapors or mists.
<b>Note to physicians</b>	May cause sensitization in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
<b>Suitable Extinguishing Media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
<b>Unsuitable extinguishing media</b>	No information available.
<b>Specific hazards arising from the</b>	Risk of ignition. Keep product and empty container away from heat and sources of ignition.

<b>chemical</b>	In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.
<b>Special Extinguishing Media</b>	Cool drums with water spray.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing vapors or mists.
<b>Other Information</b>	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.
<b>Environmental precautions</b>	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
<b>Methods for containment</b>	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.
<b>Reference to other sections</b>	See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

### Handling

<b>Advice on safe handling</b>	Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse.
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### Storage

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national
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regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure guidelines**

Chemical name	Japan	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV
Methyl methacrylate 80-62-6	TWA: 2 ppm TWA: 8.3 mg/m <sup>3</sup>	-	STEL: 100 ppm TWA: 50 ppm
Styrene 100-42-5	TWA: 20 ppm TWA: 85 mg/m <sup>3</sup> S*	20 ppm	STEL: 40 ppm TWA: 20 ppm

**Biological occupational exposure limits** Not applicable

Chemical name Styrene 100-42-5  
ACGIH - American Conference of Governmental Industrial Hygienists  
400 mg/g creatinine  
40 µg/L

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** No information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

**Physical state** Liquid  
**Appearance** No information available  
**Odor** Characteristic  
**Color** No information available  
**Odor Threshold** No information available

Property	Values	Remarks Method
pH	Not determined	
Melting / freezing point	No data available	None known

<b>Boiling point / boiling range</b>	101°C °C	
<b>Flash Point</b>	26°C C	
<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	1.05	
<b>Water Solubility</b>	Immiscible	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Viscosity</b>	No data available	None known
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	
<b><u>Other Information</u></b>		
<b>Softening Point</b>	No information available	
<b>Molecular Weight</b>	No information available	
<b>VOC Content (%)</b>	Not applicable	
<b>Liquid Density</b>	No information available	
<b>Bulk Density</b>	No information available	
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Stability</b>	Stable under normal conditions.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	Yes
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Heat, flames and sparks. Excessive heat.
<b>Incompatible materials</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation. May cause drowsiness or dizziness.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on

components). Causes serious eye irritation.

**Skin contact**

Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking. Causes skin irritation.

**Ingestion**

Specific test data for the substance or mixture is not available. May cause additional effects as listed under "Inhalation". Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms**

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Difficulty in breathing. Dizziness. Redness. May cause redness and tearing of the eyes.

**Numerical measures of toxicity - Product Information****The following values are calculated based on chapter 3.1 of the GHS document**

ATEmix (oral)	32,721.90 mg/kg
ATEmix (dermal)	42,449.00 mg/kg
ATEmix (inhalation-gas)	3,013.00 mg/L
ATEmix (inhalation-dust/mist)	1.50 mg/L
ATEmix (inhalation-vapor)	19.50 mg/L

**Unknown acute toxicity**

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 10 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 89 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 49 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 89 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Numerical measures of toxicity - Component Information**

Chemical name	LD50 Oral	LD50 Dermal	Inhalation LC50
Methyl methacrylate 80-62-6	= 7900 mg/kg ( Rat ) = 7872 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	= 4632 ppm ( Rat ) 4 h
Styrene 100-42-5	= 1000 mg/kg ( Rat )		= 11.7 mg/L ( Rat ) 4 h
Benzenamine, N,N,4-trimethyl- 99-97-8	= 1650 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	= 1400 mg/m <sup>3</sup> ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation**

Classification based on data available for ingredients.

**Respiratory or skin sensitization**

May cause sensitization by inhalation. May cause sensitization by skin contact.

**Germ cell mutagenicity**

Contains a known or suspected mutagen. Classification based on data available for ingredients. Suspected of causing genetic defects.

**Carcinogenicity**

Contains a known or suspected carcinogen. Classification based on data available for ingredients.

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



Chemical name	Carcinogenicity	IARC
Methyl methacrylate 80-62-6		Group 3
Styrene 100-42-5	2	Group 2B
Benzenamine, N,N,4-trimethyl- 99-97-8	2	Group 2B

**Legend:**

IARC (International Agency for Research on Cancer)  
 Group 2B - Possibly Carcinogenic to Humans  
 Group 3 - Not Classifiable as to Carcinogenicity in Humans

<b>Reproductive toxicity</b>	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients.
<b>STOT - single exposure</b>	Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Reproductive system. Central nervous system (CNS). Liver. Blood.
<b>Target Organ Effects</b>	Central nervous system (CNS).
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Ecotoxicity** Toxic to aquatic life with long lasting effects. .

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl methacrylate	96h EC50: = 170 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 243 - 275 mg/L (Pimephales promelas) 96h LC50: 125.5 - 190.7 mg/L (Pimephales promelas) 96h LC50: 153.9 - 341.8 mg/L (Lepomis macrochirus) 96h LC50: > 79 mg/L (Oncorhynchus mykiss) 96h LC50: 170 - 206 mg/L (Lepomis macrochirus) 96h LC50: 326.4 - 426.9 mg/L (Poecilia reticulata)	-	48h EC50: = 69 mg/L
Styrene	96h EC50: = 0.72 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.15 - 3.2 mg/L (Pseudokirchneriella subcapitata) 72h EC50:	96h LC50: 3.24 - 4.99 mg/L (Pimephales promelas) 96h LC50: 6.75 - 14.5 mg/L (Pimephales promelas) 96h LC50: 58.75 - 95.32	EC50 = 5.4 mg/L 5 min	48h EC50: 3.3 - 7.4 mg/L

	0.46 - 4.3 mg/L (Pseudokirchneriella subcapitata) 72h EC50: = 1.4 mg/L (Pseudokirchneriella subcapitata)	mg/L (Poecilia reticulata) 96h LC50: 19.03 - 33.53 mg/L (Lepomis macrochirus)		
Benzenamine, N,N,4-trimethyl-		96h LC50: 42 - 50.5 mg/L (Pimephales promelas)	-	

**Persistence and Degradability** No information available.

**Bioaccumulation**

#### Component Information

Chemical name	Log Pow
Methyl methacrylate	0.7
Styrene	2.95
Benzenamine, N,N,4-trimethyl-	2.81

**Mobility in soil** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

#### Endocrine Disruptor Information

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Styrene	Group I Chemical	High Exposure Concern	Industrial chemical

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

### 14. TRANSPORT INFORMATION

#### IMDG

**UN Number** UN1866  
**Proper Shipping Name** RESIN SOLUTION  
**Hazard Class (select)** 3  
**Packing Group (select)** III  
**EmS-No.** F-E, S-E  
**Description** UN1866, RESIN SOLUTION, 3, III, (26°C C.C.)

#### ADR

**UN-No.** UN1866  
**Proper Shipping Name** RESIN SOLUTION  
**Description** UN1866, RESIN SOLUTION, ENVIRONMENTALLY HAZARDOUS, 3, III, (D/E)  
**Hazard Class** 3  
**Packing Group** III

Environmental hazard Yes  
 Special Provisions 640E  
 Classification code F1  
 Tunnel restriction code (D/E)

**IATA**

UN Number UN1866  
 Proper Shipping Name RESIN SOLUTION  
 Hazard Class (select) 3  
 Packing Group (select) III  
 Description UN1866, RESIN SOLUTION, 3, III

**Japan**

UN Number UN1866  
 Proper Shipping Name Resin solution  
 Hazard Class 3  
 Packing group III  
 Special Provisions 223

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National Regulations

##### Japan

#### **Pollutant Release and Transfer Registry (PRTR)**

See section 3 for more information

#### **Industrial Safety and Health Law**

##### **Prevention of hazards due to specified chemical substances**

Specified chemical substances (Group 2) - Industrial Safety and Health Law enforcement order Table 3 (related to article 6, article 9-3, article 21, article 22 and the Ordinance on Prevention of Hazards Due to Specified Chemical Substances)

##### **Substances under special supervision**

Specified chemical substance subject to article 38-3 and 38-4 of the Ordinance on Prevention of Hazards Due to Specified Chemical Substances

##### **Harmful Substances Whose Names Are to be Indicated on the Label**

Harmful Substances - names to be indicated on the label; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57 and ISHL Ordinance Article 33)

##### **ISHL Notifiable Substances**

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

##### **ISHL Working Environmental Evaluation Standards - Administrative Control Levels**

Subject to working environment measurements (related to Industrial Safety and Health Law Enforcement Order article 21 and Working Environment Evaluation Standards - administrative control levels)

For further specification, refer to section 8 of the SDS

#### **Fire Service Law:**

Verify that requirements related to using, handling, and storing substances subject to prohibition, authorization or restriction are met

Flammable liquids, group 4, 2nd class petroleum, water-insoluble, hazard rank III, 1000 liters

#### **Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)**

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed

Chemical name	Chemical Substances Control Law
Styrene 100-42-5	Priority assessment chemical substance

**Labor Standards Act**

Occupational illnesses caused by chemical substances - Labor Standards Act article 75, Enforcement Ordinance article 35 and Notification Designating Elements and Compounds of Chemical Substances and Occupational Illnesses Table 1-2 item 4-1

**Water Pollution Control Act**

Designated substance may cause adverse effects to human health or the living environment per Water Pollution Control Law article 2 and Enforcement Order article 3-3

**Waterworks (Water Supply) Act**

Waterworks (Water Supply) Act - items that require further study

**Air Pollution Control Law**

Air pollutants with regulated emissions standards, Air Pollution Control Act article 3

Volatile organic compound per Air Pollution Control Law article 2, paragraph 4

Hazardous air pollutants (HAPs) per Air Pollution Control Law article 2, paragraph 1, item 3 and Enforcement Order article 1

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## 16. OTHER INFORMATION

<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
<b>Issuing Date</b>	01-Mar-2017
<b>Revision Date</b>	08-Nov-2018
<b>Revision Note</b>	No information available

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation
C	Carcinogen		

**Disclaimer**

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