SAFETY DATA SHEET (SDS)

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

GHS product identifier
FELT PEN E (REP-E)

Manufacturer name
EIVEST CO.,LTD.

Address
2-4-11 Ohiraki Fukushima-ku Osaka City Osaka Pref. JAPAN

Section concerned
Quality control division

Tel
06-6463-2226

FAX
06-6463-2269

e-mail
info@eivest.com

Product Information Usage
Acrylic lacquer coating

Recommended use
For industrial use

2. Hazard(s) identification

GHS Classification

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 Classification not possible
Skin Category 1
Germ cell mutagenicity Not classified
Carcinogenicity Category 1
Reproductive toxicity Category 1
Specific target organ toxicity - Single exposure Category 1
Specific target organ toxicity - Repeated exposure Category 1
Aspiration hazard Classification not possible

Hazardous to the aquatic environment
Short-term (acute) aquatic hazard: Category 2
Long-term (chronic) aquatic hazard: Category 2
Hazardous to the ozone layer Classification not possible
Hazard statement:
- May cause an allergic skin reaction
- Highly flammable liquid and vapour
- Causes serious eye irritation
- Toxic to aquatic life
- May damage fertility or the unborn child
- Causes damage to organs (state below for available organ data)
- Causes damage to organs through prolonged or repeated exposure (state below for available organ data)
- Toxic to aquatic life with long lasting effects
- May cause cancer
- Causes skin irritation
- Causes damage to liver
- Causes damage to organs (hematopoietic system)
- Causes damage to respiratory system
- Causes damage to kidney
- Causes damage to systemic toxicity
- Causes damage to central nervous system
- May cause respiratory irritation
- May cause drowsiness or dizziness
- Causes damage to liver through prolonged or repeated exposure
- Causes damage to hematopoietic system through prolonged or repeated exposure
- Causes damage to respiratory system through prolonged or repeated exposure
- Causes damage to bone 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 organ of hearing 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.
- Wear protective gloves/protective clothing/eye protection/suitable respiratory equipment.
- 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 you feel unwell.
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.
Collect spillage.
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.
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

Physical and Chemical hazards
Very inflammable liquid. Remaining gas may cause explosion.

3. Composition/information on ingredients

Distinction of chemical or mixture:
Mixture

Hazardous, harmful element:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Composition</th>
<th>CAS No.</th>
<th>Japanese Industrial Safety and Health Law (Article 57-2 of the Law)</th>
<th>Japanese PRTR Law</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>20 ~ 30%</td>
<td>123-86-4</td>
<td>Labeling/MSDS require —</td>
<td>—</td>
</tr>
<tr>
<td>Acrylic resin</td>
<td>10 ~ 20%</td>
<td>Confidential</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Xylene, mixed isomers, pure</td>
<td>10 ~ 20%</td>
<td>1330-20-7</td>
<td>Labeling/MSDS require 1-80</td>
<td>1-53</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>10 ~ 20%</td>
<td>100-41-4</td>
<td>Labeling/MSDS require</td>
<td>—</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>10 ~ 20%</td>
<td>13463-67-7</td>
<td>Labeling/MSDS require —</td>
<td>—</td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>5 ~ 10%</td>
<td>141-78-6</td>
<td>Labeling/MSDS require —</td>
<td>—</td>
</tr>
</tbody>
</table>
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, Dry chemicals
Unsuitable extinguishing media:
Water in a jet.

Specific hazards arising from the chemical:
Not available

Specific fire-fighting measures:
Don't use water.
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.

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.

Conditions for safe storage, including any incompatibilities
Protect from sunlight.
Store in a well-ventilated place.
Keep away from fire and heat.

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 handling 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:

<table>
<thead>
<tr>
<th></th>
<th>Administrative levels</th>
<th>Threshold limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>150ppm</td>
<td>150ppm ACGIH(TWA) 200ppm ACGIH(STEL)</td>
</tr>
<tr>
<td>Xylene, mixed isomers, pure</td>
<td>50ppm</td>
<td>100ppm ACGIH(TWA) 150ppm ACGIH(STEL)</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>20ppm</td>
<td>50ppm ACGIH(TWA) 20ppm ACGIH(STEL)</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>Not applicable</td>
<td>10mg/m³ ACGIH(TWA)</td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>200ppm</td>
<td>200ppm ACGIH(TWA) 400ppm ACGIH(STEL)</td>
</tr>
<tr>
<td>Toluene</td>
<td>20ppm</td>
<td>50ppm ACGIH(TWA) 20ppm ACGIH(STEL)</td>
</tr>
<tr>
<td>Dibutan-1-yl phthalate</td>
<td>Not applicable</td>
<td>5mg/m³ ACGIH(TWA) 5mg/m³ ACGIH(STEL)</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>20ppm</td>
<td>25ppm ACGIH(TWA) 20ppm ACGIH(STEL)</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>200ppm</td>
<td>400ppm ACGIH(TWA) 400ppm ACGIH(STEL)</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>25ppm</td>
<td>50ppm ACGIH(TWA) 20ppm ACGIH(STEL)</td>
</tr>
<tr>
<td>Iron hydroxide oxide</td>
<td>Not applicable</td>
<td>1(Respirable dust) mg/m³ ACGIH(TWA) 4(Total dust) mg/m³ ACGIH(TWA) 5mg/m³(Fe) ACGIH(TWA)</td>
</tr>
<tr>
<td>Aluminium hydroxide</td>
<td>Not applicable</td>
<td>2mg/m³ ACGIH(TWA)</td>
</tr>
<tr>
<td>Silicon dioxide(amorphous)</td>
<td>Not applicable</td>
<td>10mg/m³ ACGIH(TWA) 2(Respirable dust) mg/m³ ACGIH(TWA) 8(Total dust) mg/m³ ACGIH(TWA)</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>25ppm</td>
<td>20ppm ACGIH(TWA)</td>
</tr>
<tr>
<td>Styrene</td>
<td>20ppm</td>
<td>20ppm ACGIH(TWA) 40ppm ACGIH(STEL)</td>
</tr>
</tbody>
</table>

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.
Workers should be wear electro conductive shoes during electrostatic spraying operation.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance (physical state)</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance (color)</td>
<td>Specific color</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Solvent odour</td>
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<tr>
<td>pH</td>
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<tr>
<td>Boiling point</td>
<td>77°C</td>
</tr>
<tr>
<td>Boiling range</td>
<td>77～141°C</td>
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<tr>
<td>Flash point</td>
<td>4℃</td>
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<tr>
<td>Lower flammability or explosive limits:</td>
<td>1Vol%</td>
</tr>
<tr>
<td>Upper flammability or explosive limits:</td>
<td>11.4Vol%</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>12452Pa</td>
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<tr>
<td>Density</td>
<td>1.04g/cm³</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>425℃</td>
</tr>
</tbody>
</table>

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 °C. Keep cool.

Incompatible materials:
Oxidizing substances

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

11. Toxicological information

<table>
<thead>
<tr>
<th>Substances</th>
<th>Acute Toxicity Oral</th>
<th>Acute Toxicity Dermal</th>
<th>Acute Toxicity Inhalation: Gases</th>
<th>Acute Toxicity Inhalation: Vapours</th>
<th>Acute Toxicity Inhalation: Dusts, Mists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>Not classified</td>
<td>Not classified</td>
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<td>Classification not possible</td>
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<td>Acute Toxicity Dermal</td>
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<td>Acute Toxicity Inhalation: Vapours</td>
<td>Acute Toxicity Inhalation: Dusts, Mists</td>
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<tr>
<td>Titanium dioxide</td>
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<td>Ethyl acetate</td>
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<td>1-Butanol</td>
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<tr>
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<td>Classification not possible</td>
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<td>Not classified</td>
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<td>Classification not possible</td>
<td>Classification not possible</td>
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<td>Classification not possible</td>
<td>Classification not possible</td>
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<td>Category 2B</td>
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</tr>
<tr>
<td>Dibutylan-ylphthalate</td>
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<td>Classification not possible</td>
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<td>Classification not possible</td>
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<td>Category 2A</td>
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<td>Category 1</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

- **Skin corrosion/irritation**: Serious eye damage/eye irritation
- **Respiratory sensitization**: Skin sensitization
- **Germ cell mutagenicity**:
<table>
<thead>
<tr>
<th>Material</th>
<th>Skin corrosion/irritation</th>
<th>Serious eye damage/eye irritation</th>
<th>Respiratory sensitization</th>
<th>Skin sensitization</th>
<th>Germ cell mutagenicity</th>
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<tbody>
<tr>
<td>2-Propanol</td>
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<td>Category 2</td>
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<td>Classification not possible</td>
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<td>Category 2A</td>
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<tr>
<td>Iron hydroxide oxide</td>
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<td>Not classified</td>
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<tr>
<td>Polycarbonate</td>
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<td>Not classified</td>
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<tr>
<td>Silicon dioxide (amorphous)</td>
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<table>
<thead>
<tr>
<th>Material</th>
<th>Carcinogenicity</th>
<th>Reproductive toxicity</th>
<th>Specific target organ toxicity - Single exposure</th>
<th>Specific target organ toxicity - Repeated exposure</th>
<th>Aspiration hazard</th>
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<tbody>
<tr>
<td>Butyl acetate</td>
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<td>Category 1</td>
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### Carcinogenicity Reproductive toxicity Specific target organ toxicity - Single exposure Specific target organ toxicity - Repeated exposure Aspiration hazard

<table>
<thead>
<tr>
<th></th>
<th>Carcinogenicity</th>
<th>Reproductive toxicity</th>
<th>Specific target organ toxicity - Single exposure</th>
<th>Specific target organ toxicity - Repeated exposure</th>
<th>Aspiration hazard</th>
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<td>2-Butoxyethanol</td>
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<td>Category 1</td>
<td>Category 1</td>
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<td>Styrene</td>
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<td>Category 1B</td>
<td>Category 1</td>
<td>Category 1</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

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:**

<table>
<thead>
<tr>
<th></th>
<th>Short-term(acute) aquatic hazard</th>
<th>Long-term(chronic) aquatic hazard</th>
<th>Hazardous to the ozone layer</th>
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<td>Classification not possible</td>
</tr>
<tr>
<td>Xylene, mixed isomers, pure</td>
<td>Category 2</td>
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<tr>
<td>Ethylbenzene</td>
<td>Category 1</td>
<td>Category 2</td>
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<td>Ethyl acetate</td>
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<td>Toluene</td>
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<td>1-Butanol</td>
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<tr>
<td>Polycarbonate</td>
<td>Classification not possible</td>
<td>Classification not possible</td>
<td>Classification not possible</td>
</tr>
</tbody>
</table>
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.
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.
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 ICAO TI/Japanese Civil Aeronautics Act.
UN Number:
1263
UN Proper shipping name:
PAINT or PAINT RELATED MATERIAL
Transport Hazard class(es):
128 FLAMMABLE LIQUIDS (Non-Polar / Water-Immiscible)
UN classification:
Class 3 : Flammable liquids
Packing group, if applicable:
II
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 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 Inflammable liquid class

Japanese Air Navigation Law Enforcement Ordinance Article 194 Hazardous Material Notification Attached Table 1 Inflammable Liquid

We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, 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

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

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

<Cyclohexanone>

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
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

<1-Butanol>
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

<2-Butoxyethanol>
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

<Styrene>
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

16. Other information

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