



## SAFETY DATA SHEET

SDS Number: SDS-70359

Version No: 003

Revision Date/Version No:28-03-2019 /3/2.1.1

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### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

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Product Name:	HI-PON 30-02 EPOXY MIO 80 GREY
Intended Use:	Solvent-Based Protective Paint
Manufacturer:	Nippon Paint (S) Co. Pte Ltd No. 1 First Lok Yang Road Jurong Singapore 629728
Emergency Phone Number:	(65) 6 265 5355
Fax Numbers:	(65) 6 264 1603

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### 2. HAZARDS IDENTIFICATION

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#### GHS Classification:

##### Physical Hazard

Flammable Hazard Category 3

##### Health Hazard

Skin corrosion/irritation Category 2

Serious eye damage/irritation Category 2

Skin sensitization Category 1

Germ cell mutagenicity Category 1

Carcinogenicity Category 1

##### Environmental Hazard

Not classified as an environmental hazard under GHS criteria

##### GHS Pictogram



##### Signal Word

Danger

##### Hazard statements

H226: Flammable liquid and vapour

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

H340: May cause genetic defects  
 H350: May cause cancer

Precautionary statements

P201: Obtain special instructions before use  
 P202: Do not handle until all safety precautions have been read and understood  
 P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
 P233: Keep container tightly closed  
 P240: Ground/bond container and receiving equipment  
 P241: Use explosion-proof electrical/ventilating/light/equipment  
 P242: Use only non-sparking tools  
 P243: Take precautionary measures against static discharge  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray  
 P264: Wash hands thoroughly after handling  
 P272: Contaminated work clothing should not be allowed out of the workplace  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P281: Use personal protective equipment as required

Response

P321: Specific treatment (see Section 4 of SDS)  
 P362: Take off contaminated clothing and wash before reuse  
 P363: Wash contaminated clothing before reuse  
 P302+352: IF ON SKIN: Wash with soap and water  
 P308+313: IF exposed or concerned: Get medical advice/attention  
 P332+313: If skin irritation occurs: Get medical advice/attention  
 P333+313: If skin irritation or a rash occurs: Get medical advice/attention  
 P337+313: If eye irritation persists: Get medical advice/attention  
 P370+378: In case of fire: Use appropriate media for extinction  
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

Storage

P405: Store locked up  
 P403+235: Store in a well ventilated place. Keep cool

Disposal

P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance with local or national regulations

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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Substances	CAS No.	%
Bisphenol-A epoxy resin	25068-38-6	5-12
Xylene	1330-20-7	3-6
1-Butanol	71-36-3	1-3
Substances determined to be non-hazardous	-	Balance
		100%

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**4. FIRST-AID MEASURES**

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**INHALATION**

- Move person to fresh air and call for medical assistance immediately.
- If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Keep at rest.

**SKIN CONTACT**

- In case of contact, immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes.
- If irritation persists, get medical attention.

**EYE CONTACT**

- Immediately flush eyes with large amounts of water until irritation subsides.
- Remove contact lens.
- Obtain medical attention, preferably by an ophthalmologist, immediately.

**INGESTION**

- DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately.

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**5. FIRE FIGHTING MEASURES**

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**SUITABLE FIRE EXTINGUISHING MEDIA**

- Alcohol - resistant foam, Carbon dioxide, or dry chemical type.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

- Combustion products may include and are not limited to: Carbon monoxide and Carbon dioxide.

**SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS**

- Wear full protective clothing and NIOSH - approved self - contained breathing apparatus.
- Use water spray to cool fire - exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapours.
- If possible, isolate product from heat, electrical equipments, sparks and open flames.
- Avoid spraying water directly into storage containers.
- Closed containers may explode when exposed to extreme heat.
- Avoid spreading burning liquid with water, isolate liquid.
- Do not allow runoff from fire fighting to enter drains or watercourses.

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**6. ACCIDENTAL RELEASE MEASURES**

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**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE**

- Wear appropriate protective equipment, e.g. respirators, eye protection, gloves and safety shoes.
- Avoid substance contact with eyes. Do not inhale vapours.
- Ensure supply of fresh air in enclosed rooms.

**ENVIRONMENTAL PRECAUTIONS**

- Eliminate sources of ignition.
- Keep public away.
- Contain spilled liquid with sand or other non-combustible absorbent materials.
- Wash area and prevent runoff into drains and sewerage system.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil

or vegetation.

**METHODS AND MATERIALS FOR CONTAINMENTS AND CLEANING UP**

- Clean up all spills immediately.
- Absorb spill with absorbent and inert material, then place in container.
- Disposal in accordance to local/national regulations.

**7. HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING**

- Use appropriate personal protective equipment.
- Keep out of reach of children.
- Handle containers with care. Open slowly in order to control possible pressure release.
- Do not pressurize containers.
- Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eyes.
- For personal protection, see section 8.
- Use only in areas from which all naked lights and other sources of ignition have been excluded.
- Take precautionary measures against static discharge.
- Protect from frost and extremes of temperature.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

- Keep containers tightly closed.
- Containers that are opened should be properly resealed and kept upright to prevent leakage.
- Store in cool, dry and well - ventilated place at temperature between 20°C to 40°C away from heat and sources of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**CONTROL PARAMETERS/OCCUPATIONAL LIMITS**

Substances	ACGIH TLV-TWA		OSHA PEL-TWA	
	ppm	mg/m3	ppm	mg/m3
Bisphenol-A epoxy resin	-	-	-	-
Xylene	100	434.00	-	-
1-Butanol	-	-	-	-

**APPROPRIATE ENGINEERING CONTROL MEASURES**

- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
- Ensure eyewash stations and safety showers are close to the workstation location.

**PERSONAL PROTECTION**

Respiratory Protection:	Use of NIOSH - approved respirators with organic vapour cartridges is recommended.
Hand Protection:	Use of solvent resistance type or chemical resistant type of protective gloves is recommended.
Eye Protection:	Use of safety glasses or goggles with side shields is recommended.
Skin / Body Protection:	Wear chemical resistant clothes and safety shoes when handling product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	: Liquid
Odour	: Aromatic hydrocarbon odour
Odour threshold	: Not available
pH	: Not available
Melting point/freezing point	: Not available
Initial boiling point and boiling range	: Between 117 and 143 °C
Flash point	: 23 °C
Evaporation rate	: Not available
Flammability (solid, gas)	: Not applicable
Lower flammability or explosive limit	: 1.1 % by vol
Upper flammability or explosive limit	: 11.2 % by vol
Vapour pressure	: Not available
Vapour density	: > 1.00 (Vapour is heavier than air)
Relative density	: Not available
Solubility	: Not Miscible in water
Partition coefficient	: Not available
Auto-ignition temperature	: > 527 °C
Decomposition temperature	: Not available
Viscosity	: 130 - 136 KU

## 10. STABILITY AND REACTIVITY

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### REACTIVITY

- No dangerous reaction known under condition of normal use.

### CHEMICAL STABILITY

- The product is stable under recommended storage and handling conditions. (see section 7)

### POSSIBILITY OF HAZARDOUS REACTION

- Under normal conditions of storage and use, hazardous reaction will not occur.

### CONDITIONS TO AVOID

- Keep away from oxidising agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, drill, grind or expose containers to heat or sources of ignition.

### HAZARDOUS DECOMPOSITION PRODUCTS

- When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

## 11. TOXICOLOGICAL INFORMATION

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There is no data available on the product itself.  
Toxicological information of substances:

### **Acute oral toxicity**

Harmful if swallowed

<u>Substances</u>	<u>Oral LD50(Rat), mg/kg</u>
Bisphenol-A epoxy resin	11400
Xylene	4300
1-Butanol	790

**Acute dermal/skin toxicity**

May be harmful if in contact with skin

<u>Substances</u>	<u>Dermal LD50 (Rabbit), mg/kg</u>
Bisphenol-A epoxy resin	1600
Xylene	1700
1-Butanol	3400

**Acute inhalation toxicity**

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

<u>Substances</u>	<u>Inhalation Vapor LC50 (Rat), mg/L/4hr</u>
Bisphenol-A epoxy resin	Data not available
Xylene	5000
1-Butanol	8000

**Skin corrosion or irritation**

Causes skin irritation. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

**Serious eye damage or irritation**

May be an eye irritant

**Respiratory or skin sensitisation**

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract

**Germ cell mutagenicity**

No information available on the product

**Carcinogenicity**

Titanium Dioxide

The International Agency for Research on Cancer (IARC) has classified Titanium Dioxide as possibly carcinogenic to humans (Group 2B) based on inadequate evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals

**Reproductive toxicity**

No information available on the product

**Specific Target Organ Toxicity (STOT)-single exposure**

No information available on the product

**Specific Target Organ Toxicity (STOT)-repeated exposure**

No information available on the product

**Asphyxiation hazard**

May be harmful if swallowed and enters airways

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## 12. ECOLOGICAL INFORMATION

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### Toxicity

Aquatic toxicity -No data available

### Persistence and degradability

Biodegradation -No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Result of PBT and vPvB assessment

No data available

### Other adverse effects

There is no ecotoxicological test data available on the product itself.

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

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## 13. DISPOSAL CONSIDERATIONS

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The product should not be allowed to enter drains and watercourses.

Preferred methods of waste disposal are incineration or biological treatment in federal/state approved facility. Empty containers should be recycled or disposed through an approved waste management facility or licensed contractor.

All federal, state and local environmental regulations shall be observed.

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## 14. TRANSPORT INFORMATION

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Transport to be in accordance with ADR/RID for road/rail, IMDG for sea and IATA for Air.

### **LAND TRANSPORT**

Classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

Class: Class 3

Packaging Group: III

### **SEA TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

Class: Class 3

Packaging Group: III

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Marine Pollutant          No

**SEA (ANNEX II OF MARPOL 73/78 AND THE IBC CODE)**

Not applicable

**AIR TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air

UN Number:                1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

Class:                      Class 3

Packaging Group:        III

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**15. REGULATORY INFORMATION**

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Applicable national regulations:

- Standards on Hazard communication for hazardous chemicals and dangerous goods
  - SS 586: Part 1: 2014-Transport and storage of dangerous goods
  - SS 586: Part 2: 2014-GHS of classification and labelling of chemicals
  - SS 586: Part 3: 2008(2014)-Preparation of safety data sheet
- MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations
  - This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations.
- NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations
  - This product is not subject to control under this Acts/Regulations.
- SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations
  - This product is subject to the requirement of this Acts/Regulations.
- SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules
  - This product is not subject to the requirement of this Acts/Regulations.

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**16. OTHER INFORMATION**

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Revision Date/Version No.: 28-03-2019 /3/2.1.1

History

Previous Revision Date /Version No.: 19-09-2016 /3/1.1.1

Abbreviation

ACGIH American Conference of Governmental Industrial Hygienists

TLV Threshold limit value

TWA Time-Weighted Average

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

LD50 Lethal Dose

LC50 Median lethal concentration

IARC International Agency for Research in Cancer

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, the



information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness. Since the conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge, for this and other reasons, we make no guarantee of results and assume no liability for damages incurred by the use of this product. Please be reminded that all chemicals may present unknown health hazards and should be used with caution.



## SAFETY DATA SHEET

SDS Number: SDS-70362

Version No: 003

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### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

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Product Name:	HI-PON 30-02 HARDENER
Intended Use:	Hardener for Paint
Manufacturer:	Nippon Paint (S) Co. Pte Ltd No. 1 First Lok Yang Road Jurong Singapore 629728
Emergency Phone Number:	(65) 6 265 5355
Fax Numbers:	(65) 6 264 1603

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### 2. HAZARDS IDENTIFICATION

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#### GHS Classification:

##### Physical Hazard

Flammable Hazard Category 3

##### Health Hazard

Skin corrosion/Irritation Category 2

Serious eye damage/irritation Category 1

##### Environment Hazard

Not classified as an environmental hazard under GHS criteria

##### GHS Pictogram



##### Signal Word

Danger

##### Hazard statements

H226: Flammable liquid and vapour

H315: Causes skin irritation

H318: Causes serious eye damage

##### Precautionary statements

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/light/equipment

P242: Use only non-sparking tools

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P243: Take precautionary measures against static discharge

P264: Wash hands thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

#### Response

P310: Immediately call a POISON CENTER or doctor/physician

P321: Specific treatment (see Section 4 of SDS)

P362: Take off contaminated clothing and wash before reuse

P302+352: IF ON SKIN: Wash with soap and water

P332+313: If skin irritation occurs: Get medical advice/attention

P370+378: In case of fire: Use appropriate media for extinction

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

#### Storage

P403+235: Store in a well ventilated place. Keep cool

#### Disposal

P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance with local or national regulations

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances	CAS No.	%
Xylene	1330-20-7	6-12
1-Butanol	71-36-3	2-5
2,4,6-Tris(dimethylaminomethyl) phenol	90-72-2	1-2

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### 4. FIRST-AID MEASURES

#### INHALATION

- Move person to fresh air and call for medical assistance immediately.
- If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Keep at rest.

#### SKIN CONTACT

- In case of contact, immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes.
- If irritation persists, get medical attention.

#### EYE CONTACT

- Immediately flush eyes with large amounts of water until irritation subsides.
- Remove contact lens.
- Obtain medical attention, preferably by an ophthalmologist, immediately.

#### INGESTION

- DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately.

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### 5. FIRE FIGHTING MEASURES

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**SUITABLE FIRE EXTINGUISHING MEDIA**

- Alcohol - resistant foam, Carbon dioxide, or dry chemical type.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

- Combustion products may include and are not limited to: Carbon monoxide and Carbon dioxide.

**SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS**

- Wear full protective clothing and NIOSH - approved self - contained breathing apparatus.
- Use water spray to cool fire - exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapours.
- If possible, isolate product from heat, electrical equipments, sparks and open flames.
- Avoid spraying water directly into storage containers.
- Closed containers may explode when exposed to extreme heat.
- Avoid spreading burning liquid with water, isolate liquid.
- Do not allow runoff from fire fighting to enter drains or watercourses.

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**6. ACCIDENTAL RELEASE MEASURES**

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**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE**

- Wear appropriate protective equipment, e.g. respirators, eye protection, gloves and safety shoes.
- Avoid substance contact with eyes. Do not inhale vapours.
- Ensure supply of fresh air in enclosed rooms.

**ENVIRONMENTAL PRECAUTIONS**

- Eliminate sources of ignition.
- Keep public away.
- Contain spilled liquid with sand or other non-combustible absorbent materials.
- Wash area and prevent runoff into drains and sewerage system.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

**METHODS AND MATERIALS FOR CONTAINMENTS AND CLEANING UP**

- Clean up all spills immediately.
- Absorb spill with absorbent and inert material, then place in container.
- Disposal in accordance to local/national regulations.

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**7. HANDLING AND STORAGE**

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**PRECAUTIONS FOR SAFE HANDLING**

- Use appropriate personal protective equipment.
- Keep out of reach of children.
- Handle containers with care. Open slowly in order to control possible pressure release.
- Do not pressurize containers.
- Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eyes.
- For personal protection, see section 8.
- Use only in areas from which all naked lights and other sources of ignition have been excluded.
- Take precautionary measures against static discharge.

- Protect from frost and extremes of temperature.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

- Keep containers tightly closed.
- Containers that are opened should be properly resealed and kept upright to prevent leakage.
- Store in cool, dry and well - ventilated place at temperature between 20oC to 40oC away from heat and sources of ignition.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**CONTROL PARAMETERS/OCCUPATIONAL LIMITS**

Substances	ACGIH TLV-TWA		OSHA PEL-TWA	
	ppm	mg/m3	ppm	mg/m3
Xylene	100.00000	434	-	-
1-Butanol	-	-	-	-
2,4,6-Tris(dimethylaminomethyl) phenol	-	-	-	-

**APPROPRIATE ENGINEERING CONTROL MEASURES**

- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
- Ensure eyewash stations and safety showers are close to the workstation location.

**PERSONAL PROTECTION**

Respiratory Protection:	Use of NIOSH - approved respirators with organic vapour cartridges is recommended.
Eye Protection:	Use of safety glasses or goggles with side shields is recommended.
Eye Protection:	Use of safety glasses or goggles with side shields is recommended.
Skin / Body Protection:	Wear chemical resistant clothes and safety shoes when handling product.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance	: Liquid
Odour	: Aromatic hydrocarbon odour
Odour threshold	: Not available
pH	: Not available
Melting point/freezing point	: Not available
Initial boiling point and boiling range	: Between 100 and 141 °C
Flash point	: 23 °C
Evaporation rate	: Not available
Flammability (solid, gas)	: Not applicable
Lower flammability or explosive limit	: 1.1 % by vol
Upper flammability or explosive limit	: 11.2 % by vol
Vapour pressure	: Not available
Vapour density	: > 1.00 (Vapour is heavier than air)
Relative density	: Not available
Solubility	: Not Miscible in water
Partition coefficient	: Not available
Auto-ignition temperature	: > 527 °C

Decomposition temperature	: Not available
Viscosity	: 132 - 138 KU

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## 10. STABILITY AND REACTIVITY

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### REACTIVITY

- No dangerous reaction known under condition of normal use.

### CHEMICAL STABILITY

- The product is stable under recommended storage and handling conditions. (see section 7)

### POSSIBILITY OF HAZARDOUS REACTION

- Under normal conditions of storage and use, hazardous reaction will not occur.

### CONDITIONS TO AVOID

- Keep away from oxidising agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, drill, grind or expose containers to heat or sources of ignition.

### HAZARDOUS DECOMPOSITION PRODUCTS

- When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

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## 11. TOXICOLOGICAL INFORMATION

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There is no data available on the product itself.

Toxicological information of substances:

### Acute Oral toxicity

Harmful if swallowed

Substances	Oral LD50(Rat), mg/kg
Xylene	4300
1-Butanol	790
2,4,6-Tris(dimethylaminomethyl) phenol	1200

### Acute dermal/skin toxicity

May be harmful if in contact with skin

Substances	Dermal LD50 (Rabbit), mg/kg
Xylene	1700
1-Butanol	3400
2,4,6-Tris(dimethylaminomethyl) phenol	Data not available

### Acute inhalation toxicity

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

Substances	Inhalation Vapor LC50 (Rat), mg/L/4hr
Xylene	5000

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<b>Substances</b>	<b>Inhalation Vapor LC50 (Rat), mg/L/4hr</b>
1-Butanol	8000
2,4,6-Tris(dimethylaminomethyl) phenol	Data not available

Skin corrosion or irritation

Causes skin irritation. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Serious eye damage or irritation

May be an eye irritant

Respiratory or skin sensitisation

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract

Germ cell mutagenicity

No information available on the product

Carcinogenicity

No information available on the product

Reproductive toxicity

No information available on the product

Specific Target Organ Toxicity (STOT)-single exposure

No information available on the product

Specific Target Organ Toxicity (STOT)-repeated exposure

No information available on the product

Asphyxiation hazard

May be harmful if swallowed and enters airways

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## **12. ECOLOGICAL INFORMATION**

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Toxicity

Aquatic toxicity -No data available

Persistence and degradability

Biodegradation -No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Result of PBT and vPvB assessment

No data available

Other adverse effects

There is no ecotoxicological test data available on the product itself.  
The product should not be allowed to enter drains or water courses.

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## **13. DISPOSAL CONSIDERATIONS**

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The product should not be allowed to enter drains and watercourses.  
Preferred methods of waste disposal are incineration or biological treatment in federal/state approved facility. Empty containers should be recycled or disposed through an approved waste management facility or licensed contractor.  
All federal, state and local environmental regulations shall be observed.

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## 14. TRANSPORT INFORMATION

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Transport to be in accordance with ADR/RID for road/rail, IMDG for sea and IATA for Air.

### LAND TRANSPORT

Classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

Class: Class 3

Packaging Group: III

### SEA TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

Class: Class 3

Packaging Group: III

Marine Pollutant No

### SEA (ANNEX II OF MARPOL 73/78 AND THE IBC CODE)

Not applicable

### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

Class: Class 3

Packaging Group: III

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## 15. REGULATORY INFORMATION

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Applicable national regulations:

- Standards on Hazard communication for hazardous chemicals and dangerous goods
  - SS 586: Part 1: 2014-Transport and storage of dangerous goods
  - SS 586: Part 2: 2014-GHS of classification and labelling of chemicals
  - SS 586: Part 3: 2008(2014)-Preparation of safety data sheet



- 
- MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations
    - This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations.
  - NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations
    - This product is not subject to control under this Acts/Regulations.
  - SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations
    - This product is subject to the requirement of this Acts/Regulations.
  - SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules
    - This product is not subject to the requirement of this Acts/Regulations.
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## 16. OTHER INFORMATION

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Revision date: 28-Jul-2015

### Abbreviation

ACGIH American Conference of Governmental Industrial Hygienists

TLV Threshold limit value

TWA Time-Weighted Average

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

LD50 Lethal Dose

LC50 Median lethal concentration

IACR International Agency for Research in Cancer

### Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness. Since the conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge, for this and other reasons, we make no guarantee of results and assume no liability for damages incurred by the use of this product. Please be reminded that all chemicals may present unknown health hazards and should be used with caution.