

SAFETY DATA SHEET

In According with 3rd revision GHS SDS

Section 1 – Identification of the Substance and Company

Product Name : 4160
 Identified Uses : Polyether Polyol for Polyurethane Application
 Chemical Name : Poly (propyleneoxy) glycerol
 Chemical Formula : Not available
 Manufacturer : IRPC POLYOL CO., LTD.
 555/2 Energy Complex , Building B , 7th Floor ,
 Vibhavadi Rangsit Road, Chatuchak , Bangkok 10900 , THAILAND
 Emergency Call : +66(0) 26466700, Ext. 6723 , 6724
 Website : www.irpc.co.th, www.irpcmarket.com

Section 2 – Hazardous Identification

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)
 Signal word : Warning
 Hazard pictograms : Not applicable
 Hazard statements : H303 May be harmful if swallowed
 Precautionary statements : P270 Do not eat, drink or smoke when using this product
 : P264 Wash thoroughly after handling

Section 3 – Composition / Information on Ingredients

| Chemical name | CAS Number | EC Number | Composition | Classification: Regulation (EC) No 1272/2008; Directive 67/548/EEC |
|------------------------------|-------------|-----------|-------------|--|
| Poly (propyleneoxy) glycerol | 025791-96-2 | 500-044-5 | > 95 % | Not classified |

Section 4 – First-aid Measures

General information : Clothing and shoes must be immediately removed, decontaminated
 Skin Exposure : Wash with a cleanser base on polyethylene glycol or with plenty of water and soap for 15 minutes. Consults doctor in the event of a skin reaction.
 Eyes Exposure : Hold the eye open and rinse with water for a sufficiently long period of time (20 - 30 min.) Then immediately consult doctor.
 Inhalation : Move to fresh air and keep warm, if there is difficulty in breathing, medical advice is required.
 Ingestion : Rinse mouth, drink plenty of water and then obtain a medical attention

Section 5 – Fire-fighting Measures

- Suitable extinguishing agents : CO₂, Powder, Foam or water spray.
 Protective equipment : Wear self-contained respiratory protective device.

Section 6 – Accidental Release Measures

- Personal Precautions : Wear protective equipment. Keep unprotected persons away.
 Environmental Precautions : Beware the contamination in sewers/surface or ground water.
 Method of disposal : Adsorb with liquid-binding material (sand, clay, inert material, diatom etc.)

Section 7 – Handling and Storage

- Handling : Observe the usual precautionary measures for chemicals. Exhaust ventilation must be provided in such a way from the personnel handling the product and the efficiency of the exhaust equipment should be periodically checked.
 Storage conditions : Store in cool location and ventilated place.
 : Do not store with isocyanate chemical closely.
 : Keep container tightly sealed. This product is hygroscopic
 : Beware heat, spark and open flame

Section 8 – Exposure Controls / Personal Protection

- Monitoring procedures : Medical supervision of all employees who handle or come in contact is recommended.
 Exposure controls : The Product does not contain any relevant quantities of materials with critical values that be monitored at the workplace.
 Personal protective : Use good personal hygiene practices, wash hand before eating, drinking, shower after work using plenty of soap and water.
 : Suitable respiratory protective device recommended.
 : Recommended chloroprene rubber (CR) or nitrite rubber (NBR) gloves.
 : Safety glass is required.
 : Ensure that eyewash stations and safety showers are proximal to the work-station location.

Section 9 – Physical and Chemical Properties

- Physical Appearance : Viscous Liquid
 Color : Clear, pale yellow liquid
 Odor : Mild odor
 Boiling Point : More than 167 °C / 350 °F
 Melting Point : Less than -4 °C / 20 °F
 Flash Point : Approx. 176 °C / 350 °F (PMCC)
 Viscosity @ 25 °C : 850 – 1,050 cps
 Density : 1.02 g/cm³ at 39 °C

Section 9 – Physical and Chemical Properties (Continue)

Solubility in / Miscibility : Slightly
With water

Section 10 – Stability and Reactivity

Chemical Stability : Stable at room temperature.
Dangerous reaction : Exothermic reaction with isocyanate
Condition to Avoid : Heat, spark and open flame.
Material to Avoid : Isocyanate, strong acid and alkaline.
Dangerous decomposition : In complete combustion may release poison gas , CO and other toxic gas
Danger of explosion : Occur when react with isocyanate in sealed container

Section 11 – Toxicological Information

Acute Toxicity

Oral : Very low toxicity if swallowed. LD₅₀ (Rat) estimated 2,830 mg/kg
Dermal : Sensitizing effect by skin contact is possible by prolonged exposure. LD₅₀ (Rabbit) estimated > 16,000 mg/kg
Inhalation : Vapor from heated material or mist may cause respiratory irritation. The LC₅₀ has not been determined.

Irritating/corrosive effects

Eye Irritation : May cause slight temporary eye irritation
Skin Irritation : Essentially nonirritating to skin.
Respiratory Irritation : Not found a significant inhalation hazard under anticipated conditions of normal use.
Ingestion Irritation : This material may be a slight health if ingested in large quantities.

Section 12 – Ecological Information

Do not allow to escape into waters, waste water or soil.
Mobility : No relevant studies identified.
Biodegradability : The product is not easily biodegradable.
Bioaccumulation : Product is not expected to bioaccumulation.
Eco-toxicity : No relevant studies identified.
Other adverse effects : This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

Section 13 – Disposal Considerations

The relevant EU directives and local, regional and national regulations must be complied with. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to European Waste Catalogue. It is recommended that details be sorted out with the waste disposer responsible.

The waste can be disposed of in a suitable incinerator under compliance with the relevant legislation.

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), any product residue adhering to their walls has been rendered harmless, and the product and hazard labeling has been invalidated, they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry.

Containers must be recycled in compliance with national legislation and environmental regulations.

Section 14 – Transport Information

| Regulatory information | UN number | Classes | Packing group | Label | Additional information |
|------------------------|---------------|---------|---------------|-------|------------------------|
| ADR / RID Class | Not regulated | - | - | - | - |
| IMDG Class | Not regulated | - | - | - | - |
| ICAO / IATA Class | Not regulated | - | - | - | - |

Section 15 – Regulatory Information

The product is not classified as dangerous for supply according to the CLP Regulation and the EC directive 67/548/EEC.

Section 16 – Other Information

The information in this document is based on our best present. Nevertheless, it does not constitute a guarantee for any specific product features and does not establish any a legally binding contract.

- ADR : European agreement concerning the international carriage of dangerous goods by road.
- RID : Regulations concerning the international carriage of dangerous goods by rail.
- IMDG – CODE : International maritime dangerous goods code
- ICAO : International Civil Aviation Organization
- IATA : International air transport association
- GHS : Globally Harmonized System of Classification and Labeling of Chemicals

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