

# MATERIAL SAFETY DATA SHEET

Classified as hazardous according to criteria of WorkSafe Australia

## HR50 Isocyanate

### IDENTIFICATION

Product Name: Erathane HR50 Isocyanate  
Use: Polyurethane foam Isocyanate  
UN Number: None allocated  
Proper Shipping Name: None allocated  
Dangerous Goods Class: None allocated  
Subsidiary risk: None allocated  
Packing Group: None allocated  
Hazchem Code: None allocated

### PHYSICAL PROPERTIES

Appearance: Clear to amber liquid  
Boiling Point /°C: Not available  
Vapour Pressure @ 20°C /kPa:  $1 \times 10^{-6}$   
Specific gravity: 1.2  
Flashpoint /°C: Greater than 200°C  
Flammability limits: Not available  
Solubility in Water /mgL<sup>-1</sup>: Reacts with water

### Other Properties

Soluble in many organic solvents

### INGREDIENTS

<u>SUBSTANCE NAME</u>	<u>Proportion</u>	<u>CAS Number</u>
POLYMERIC MDI	Greater than 60%	9016-87-9
MODIFIED MDI	10 to 30%	101-68-8

### HEALTH HAZARD INFORMATION

#### ACUTE HEALTH EFFECTS

Hazardous according to the criteria of WorkSafe Australia.

**Hazard Category: Harmful, Irritant**

#### ACUTE HEALTH EFFECTS

##### Swallowed:

May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach.

##### Eye:

Will cause irritation to the eyes, with effects including: tearing, pain, and stinging and blurred vision. Depending upon duration of exposure, eye damage may occur.

##### Skin:

Will cause irritation to the skin, with effects including: Redness, itchiness, and possible dermatitis.

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### HEALTH HAZARD INFORMATION (Cont.)

#### Inhaled:

Harmful if inhaled.

Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, in coordination, chest pains, coughing, respiratory paralysis and or failure.  
possible confusion.

#### Chronic:

Prolonged or repeated skin contact may lead to dermatitis.

This product may cause severe eye irritation and depending upon duration of exposure, some form of permanent eye damage may occur.

Prolonged or repeated exposure may lead to irreversible damage to health.

Prolonged or repeated exposure or deliberately concentrating and inhaling the vapour(s) may result in lung function incapacity or death.

Prolonged or repeated contact with this substance will cause sensitisation by inhalation.

#### FIRST AID

##### Swallowed:

If swallowed, DO NOT induce vomiting, unless instructed to do so by trained health professional. Transport to hospital or doctor.

##### Eye:

If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eyelids are held open. If irritation persists transport to hospital or doctor.

##### Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap if available.

If irritation persists transport to hospital or doctor.

##### Inhaled:

Open all doors, windows and/or vents. Move victim to fresh air. Apply resuscitation if victim is not breathing – If trained personnel available administer oxygen if breathing is difficult.

##### First Aid Facilities:

Eye wash fountain, safety shower and normal washroom facilities.

##### Advice to Doctor:

Treat symptomatically.

## PRECAUTIONS FOR USE

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### Exposure Standards

POLYMERIC MDI (Worksafe Australia)

[TWA] 0.02 mg/m<sup>3</sup>

[STEL] 0.07 mg/m<sup>3</sup>

MODIFIED MDI (Worksafe Australia)

[TWA] 0.02 mg/m<sup>3</sup>

[STEL] 0.07 mg/m<sup>3</sup>

### Notices: A

(ACGIH)

[TWA] 0.005 ppm 0.051 mg/m<sup>3</sup>

### Notices: Sen

### Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

### Personal Protection Equipment

CLOTHING: PVC or natural rubber apron or splash suit.

GLOVES: PVC or natural rubber.

EYES: Chemical goggles or face shield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of vapours. Select and use respirators in accordance with AS/NZS 1715/1716. When vapours exceed the exposure standards then the use an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus supplied air respirator complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

## SAFE HANDLING INFORMATION

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers closed, when not using the product. Store in original packages as approved by manufacturer.

### Transport

UN Number: None allocated

Proper Shipping Name: None allocated

Dangerous Goods Class: None allocated

Subsidiary risk: None allocated

Packing Group: None allocated

Hazchem Code: None allocated

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 6th Edition. Not classified as a Dangerous Good according to the UN, DOT (US), IACO (IATA) or IMO (IMDG).

Non Dangerous Good according to the ADG Code (6th Edition).

## SAFE HANDLING INFORMATION (Cont.)

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### Spills

Ventilate area. Remove all unnecessary personnel from spill area. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS. Contain using sand or soil - prevent run off into drains and waterways. Use absorbent (soil, sand, vermiculite or other inert material). Do not use sawdust. Collect and seal in properly labeled containers for disposal.

Disposal For disposal information contact the State Land Waste Management Authority or the Environmental Protection Agency.

### Disposal

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### Fire

#### Fire/Explosion Hazard

If safe to do so, move undamaged containers from fire area.

Hazardous Decomposition Products: Decomposes on heating emitting soot, smoke and decomposition products.

Fire Fighting Procedures Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended. Extinguishing Media: Use extinguishing media suitable for surrounding fire situation.

### Flammability

This material is not a flammable or combustible liquid.

## OTHER INFORMATION

### THE COMBINED ACUTE LETHAL INHALATION EFFECT OF THE MIXTURE

LC<sub>50</sub> inhalation, RAT: 1 < LC<sub>50</sub> =< 5 mg/L/4 hr

### RISK PHRASES

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin. R42

May cause sensitisation by inhalation.

### SAFETY PHRASES

S2 Keep out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S28 After contact with skin, wash immediately with plenty of warm soapy water

S38 In case of insufficient ventilation, wear suitable respiratory protection.

S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately and show this container or label.

### Ecotoxicity

### Poison Schedule

**Poison Schedule: S6**

## CONTACT POINT

Contact Point

Technical Manager 03 9579 2044.

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**Disclaimer** The information herein is to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of or reliance on, this information in inappropriate contexts.