



Health & Safety data sheets

June 2014

1. Identification of the preparations and company.

Product details: Spray-Applied Rapid Cure Polyurea System

Trade names:
ARDEX WPM 418

Supplier: ARDEX SINGAPORE PTE. LTD.
26 Tuas Avenue 4 Singapore 639376
Tel: + 65 6861 7700 Fax: + 65 6862 3381

2. Composition/information on ingredients.

Materials	CAS No.	%	OSHA PEL
Isocyanate prepolymer	9048-37-1	96-99	
Diphenylmethane Diisocyanate	101-68-8	1~4	0.02 ppm ceiling ACGIH 1986

Free monomer content maximum of 1 – 4% based on resin solids

3. Hazard identification.

HEALTH EFFECTS

Eyes: Moderate to severe irritant, May cause severe irritation and reversible corneal injury.

Skin: Prolonged or repeated exposure may cause skin irritation. May stain skin. May cause allergic reaction in susceptible individuals.

Inhaled: At room temperature, vapor are minimal due to low vapor pressure. If heated or sprayed, excessive concentration are attainable (if material is not reacted) that could be hazardous on single exposure. Excessive exposure may cause irritation of the eyes, upper respiratory tract and lungs

Ingestion: LD₅₀ oral > 2,200 mg/ Kg. May cause severe irritation of mouth, oesophagues and stomach

Signs and Symptoms: Repeated and /or prolonged contacts with the skin may cause allergic reaction/sensitization.

Aggravated Medical Conditions: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this products.

4. First aid measures.

Eyes: Flush with large amounts of water for at least 15 minutes. Seek medical attention immediately.

Skin: Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before re-use.

Inhalation: Remove to fresh air, immediately consult a physician. Effects can be delayed by several hours.

Ingestion: Do not induce vomiting, if conscious, give large quantities of water. Never give any liquids

5. Fire-fighting measures.

Suitable extinguishing media: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Protective equipment: No special measures required.

6. Accidental release measures.

Personal Precaution

Avoid contact eyes, prolonged or repeated contact with skin.

Environmental Precaution

Contaminated soil should be gathered into drums not to polluted the environment



Methods for Clean-up or Decontamination

Large spill: Incinerate or place in a suitable container for disposal by a licensed contractor.
Small spill: Clean up small spills using appropriate techniques such as solvent material or pumping.

7. Handling and Storage.

Handling

Avoid contact with eyes. Keep container closed. Used with adequate ventilation. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin. Do not allow to reach waterways.

Storage

Period of exposure to high temperatures, moisture and strong oxidizing agents should be minimized. Water contamination should be avoided.

FIRE / EXPLOSION

FlashPoint Greater than 200°C (390°F) DIN 51758

Autoignition Temperature Not Determined

Flammable Limits (%byvolume) Not Determined

Special Fire Fighting Procedures

Fire-fighters must be equipped with self-contained breathing apparatus and turn out gear.

Unusual Fire or Explosion Hazards

Prevent excessive heating of closed containers because product can decompose and cause bursting. Heavy duty breathing apparatus with an integral air supply must be worn when fighting fires.

8. Exposure controls/personal protection.

Respiratory

If the exposure level (PEL) for MDI is exceeded, wear an NIOSH approved air – supplied respirator

Ventilation

Standard industrial mechanical ventilation and local exhaust

Eye Protection

Safety glasses, splash goggles or face Shield

Skin Protection

Rubber or polyethylene gloves. Remove and launder contaminated clothing before reuse.

Other Protective Equipment

Wear protective long sleeve clothing to prevent exposure and personal contact. Have safety shower.

9. Physical and chemical properties.

Appearance	Light Yellow liquid
Odor	Mild
Solubility in Water	Not soluble reacts with evolution of CO ₂
MeltingPoint(°c)	Not Applicable
BoilingPoint(°c)	No Data Available
Explosive Properties	No Data Available
Vapor Pressure	< 0.00 1hPa(at25°C)
Specific Gravity(at 25°C)	1.09 - 1.13g/cm ³
Viscosity(mPa.s,25°C)	400 - 800

10. Stability and reactivity.



Stable under the recommended storage and handling conditions

Avoid contact with alcohol, amines, strongly bases, strongly oxidizing agent, exothermic reactions. With exposure to atmospheric humidity or water carbon dioxide may be formed which, in closed containers can result in pressure.

Hazardous decomposition products: Evolves oxides of nitrogen when burned
Condition to avoid : Avoid flame

11. Toxicological information.

Acute Oral Effects	No Data Available
Acute Inhalation Effects	No Data Available
Subchronic Effects	No Data Available
Chronic Effects	No Data Available
Mutagenicity	No Data Available
Genotoxicity	No Data Available
Others	No Data Available

12. Ecological information.

No Data Available

13. Disposal considerations.

Waste Disposal Method

Waste must be given to chemical incinerator. Small quantities in containers can be neutralized before disposal in landfill or drum recycling plants.

Container disposal

Containers should be neutralize with liquid decontaminant. Decontaminated containers must remain open for at least 48 hours to allow CO₂ gas evolved escape.

Drums may then be disposed of in a licensed facility.

Spill and leak procedures

Take up in absorbent material (sand, sawdust, oilbinder, etc.) and treat with a dilute mixture of ammonia and a surfactant to consume the isocyanate. Leave loosely covered containers to stand for a few days disposal.

14. Transport information.

Hazard Classification	Not available for product
Proper Shipping Name	Not regulate
Other Requirements	Department of transportation Hazardous Materials regulations

15. Regulatory information.

These products are not subject to identification under the EC Directives and Regulations on Hazardous Materials. This Product Data Sheet does not constitute a workplace risk assessment.

16. Other information.

Use only for the purposes intended. This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirement. It should not be construed as guaranteeing.