



P 1300 662 514

F 1300 662 517

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Unit 18, 38 Powers Road, Seven Hills, NSW 2147

High Performance Membranes

www.hpma.com.au

HPM-FC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	HPM-FC
Product Code	
Other Names	
Product Use	Sealant
Importer Name	Aldridge Corporation
Address	18/38 Powers Road, Seven Hills NSW 2147
Telephone Number	1300 662 514
Emergency Telephone	as above

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia

Hazards	F – Flammable Xn – Harmful N – Dangerous for the Environment
Risk Phrases	R10 – Flammable R20 – Harmful by inhalation R42 – May cause sensitisation by inhalation R43 – May cause sensitisation by skin contact
Safety Phrases	S1/2 – Keep locked up and out of reach of children. S23 – Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by manufacturer). S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 – After contact with skin, wash immediately with plenty of.. (to be specified by the manufacturer) S36-36/399 – Wear suitable protective clothing, gloves and eye/face equipment. S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S61 – Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common names)	CAS NO.	Proportion
Xylene, mixture of isomers	1300-20-7	1 - <10%
3-isocyanatomethyl-3,5,5-Trimethylcyclohexyl isocyanate	4098-71-9	0.1 - <1.0%
Methylenediphenyl diisocyanate	26447-40-5	0.1 - <1.0%
Low boiling point naphta, unspecified (conc. Benzene <0.1%)	64742-95-6	0.1 - <1.0%
Ingredients deemed not to be hazardous	Proprietary	To 100%



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4. FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek immediate medical attention.
Skin	Remove contaminated clothing and wash affected areas with soap and water. Seek medical attention if symptoms persist. Launder clothing before reuse.
Eyes	In case of eye contact check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 15 minutes, keeping eyelids open. Seek medical attention.

5. FIRE FIGHTING MEASURES

For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.

Suitable Extinguishing Media	Polyvalent foam, powder or carbon dioxide
Hazardous Combustion Products	Sulphur oxides, hydrogen chloride and oxides of carbon.
Fire fighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Cool closed containers with water if they are exposed to the fire. Dilute Toxic gases with water spray. Gas/Vapour spreads at floor level – ignition hazard. Vapour-air mixture is flammable/explosive within the explosion limits
Hazchem Code	Not allocated.

6. ACCIDENTAL RELEASE MEASURES

Spills

Stop leak if safe to do so. Absorb the spill with an inert (non-combustible) material such as sand, earth or vermiculite and transfer into a chemical waste container for disposal. Clean contaminated surfaces with an excess of water. Prevent the spill from entering drains or waterways. Prevent water runoff from entering drains or waterways.

7. HANDLING AND STORAGE

Handling

Wear protective clothing. Avoid breathing vapour and skin and eye contact while handling the product. Ensure good industrial hygiene practice. Avoid unnecessary exposure. Keep away from sources of ignition. Use spark/explosion proof appliances and lighting system. Take precautions against electrostatic charges.

Storage

store in a cool, dry, well ventilated place at room temperature and out of direct sunlight. Keep containers tightly closed. Keep away from heat and ignition sources. Suitable material packaging – aluminium



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)

Xylene:

TWA: 79 ppm / 350 mg/m³

STEL: 150 ppm / 655 mg/m³

Methylenediphenyl diisocyanate:

TWA: ppm / 0.02 mg/m³

STEL: ppm / 0.07 mg/m³

Engineering Controls

Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.

Respiratory Protection

No respirator is required if ingredient exposure limits are not exceeded. Use a Safe Work Australia approved full face supplied air respirator if high airborne concentrations of the material are present. See Australian Standards AS/NZS 1715 and 1716 for more information.

Eye Protection

Safety glasses.

Skin Protection

Gloves and protective clothing

Hygienic Practices

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Viscous liquid, variable in colour

Odour

Solvent odour

Solubility in Water

Insoluble

Boiling Point

No information available

Relative Density

1.2 @ 20°C

Relative Vapour Density

>1

Flow time (ISO 2431)

>60

Evaporation Rate (Butyl

No information available

Acetate = 1

Flash Point

25°C

Auto-Ignition Temp.

No information available

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions

Incompatible Materials

None known

Hazardous Decomposition Products

Sulphur oxides, hydrogen chloride and oxides of carbon.

Hazardous Polymerization

No information available

Conditions to Avoid

Heat, sources of ignition



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11. TOXICOLOGICAL INFORMATION

Toxicity

Xylene:

Oral LD50 (rat) = 4300 mg/kg

Skin LD50 (rabbit) >2000 mg/kg

Inhalation LC50 (rat) = 22 mg/m³/4h

Subcutaneous LD50 (rat) = 1700 mg/kg

Harmful if swallowed or inhaled. Eye, skin and respiratory irritant. May act as a narcotic.

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:

Oral LD50 (rat) > 2500 mg/kg

Skin LD50 (rat) = 1060 mg/kg

Inhalation LC50 (rat) = 123 mg/m³/4h

Subcutaneous LD50 (rat) = 1700 mg/kg

Severe irritant. Toxic if absorbed through skin, inhaled or swallowed. May cause sensitization.

Methylenediphenyl diisocyanate:

Oral LD50 (rat) = 9400 mg/kg

Skin LD50 (rat) = 9400 mg/kg

Routes of Exposure

Inhalation, ingestion, eye and skin

Acute Health Effects

Inhalation: Can cause headache, nausea, dizziness and narcosis
Ingestion: Harmful if ingested.

May cause symptoms similar to those listed under inhalation

Eye: May cause eye irritation

Skin: May cause skin irritation

May cause sensitisation by inhalation and skin contact

No information available

Chronic Health Effects

Existing Conditions

Aggravated by Exposure

Carcinogenicity

No (IRAC, EC, Safe Work Australia)

12. ECOLOGICAL INFORMATION

Ecotoxicity

Xylene:

LC50 96hr (Salmo gairdneri) = 3.77 mg/L

EC50 48hr (Daphnia magna) = 7.4 mg/L

EC50 72hr (Skelettonema costatum) = 10 mg/L

Methylenediphenyl diisocyanate:

LC50 50hr (Brachydanio rerio) ≥ 1000 mg/L

EC50 24hr (Daphnia magna) ≥ 500 mg/L

EC50 72hr (Algae – Scenedesmus subspicatus) = 1640 mg/L

Mobility

Volatile Organic Compounds (VOC) : 6%

Insoluble in water.

Substance sinks in water.

13. DISPOSAL CONSIDERATIONS

Disposal methods and Containers

Dispose according to applicable local and state government regulations.

Special precautions for Landfill or Incineration

Please consult your state Land Waste Management Authority for more information.

14. TRANSPORT INFORMATION

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

UN Number	Not applicable
Proper Shipping Name	Not applicable
Dangerous Goods Class	Not applicable
Hazchem Code	Not applicable
Packing Group	Not applicable
Special Precautions	Not applicable



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15. REGULATORY INFORMATION

Xylene, mixture of isomers, 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, methylenediphenyl diisocyanate and low boiling point naphta, unspecified (conc. Benzene <0.1%) are listed in the Australian Inventory of Chemical Substances (AICS)

16. OTHER INFORMATION

Last Revision of MSDS Rev 1.0 (21/04/2010)
Prepared by MSDS.COM.AU PTY LTD

Abbreviations Used

IARC: International Agency for Research on Cancer
NTP: National Toxicology Program (U.S.)
OSHA: Occupational Safety and Health Administration (U.S.)
STEL: Short Term Exposure Limit
TWA: Time Weighted Average

Emergency Contacts

Aldridge Corporation	1300 662 514
Aldridge Corporation - Emergency Number	1300 662 514
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance.

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The user is cautioned to make their own determinations as to suitability of the information provided to the particular circumstances in which the product is used.

Please read instructions / label before using product.