# Safety Data Sheet

Date of Issue: September 21
(Supersedes June 18)

# Ezypoly

## Section 1: Identification of the substance/mixture and of the supplier

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| Product Name: | Ezypoly. |
| Product Use: | One-pack, moisture-cured, aliphatic polyurethane floor coating. |
| Pack Size: | 5 litres. |
| Company: | Real World Epoxies Research Labs |
| Address: | C/- 19/10 Miltiadis Street<br>Acacia Ridge<br>QLD 4110 |
| Emergency Phone: | 0408 877 256 |

## Section 2: Hazards Identification

GHS Classification:

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| Acute Toxicity: | Category 4. |
| Respiratory Sensitisation: | Category 1. |
| Skin Sensitisation: | Category 1. |
| STOT Single Exposure: | Category 3. |

GHS Label:

Signal Word: Danger

Precautionary Statements:
Hazards:
H317 - May cause an allergic skin reaction.
H332 - Harmful if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.

Prevention:
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P284 - In case of inadequate ventilation wear respiratory protection.

Response:
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P333 + P313 - IF skin irritation or rash occurs: Get medical advice/attention.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal:
P501 - Dispose of contents/container in accordance with local and federal regulations.

General:
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

Hazard Description:
CAUTION! Contains isocyanates. Harmful if inhaled. May cause skin, eye and respiratory tract irritation. Possible sensitiser. Reacts with water, alcohols, bases and amines and releases large amounts of carbon dioxide gas.

## Section 3: Composition/information on ingredients

| INGREDIENT | CAS NUMBER | PROPORTION % |
|---|---|---|
| Homopolymer of HDI | 28182-81-2 | >60 |
| Hexamethylene-1,6-Diisocyanate | 822-06-0 | <1 |
| The remaining products are trade secrets | | to 100 |

## Section 4: First-aid measures

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| General Advice: | Seek medical advice. If breathing has stopped or is laboured give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped begin cardiopulmonary resuscitation immediately. |
| Ingestion: | DO NOT INDUCE VOMITING. Immediately wash out mouth with water. In general no treatment is necessary unless large quantities are ingested, however, seek medical attention. |
| Inhalation: | Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop and persist seek medical attention. |
| Skin Contact: | Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. |
| Eye Contact: | If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention, preferably an ophthalmologist. Suitable emergency eye wash facilities should be available in the work area. |
| Advice to Doctor: | Treat symptomatically. |
| Other: | For advice, contact a Poisons Information Center, e.g. Australia 131 126. |

## Section 5: Fire-fighting measures

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| Suitable Extinguishing Equipment: | Use water, dry extinguishing media, carbon dioxide, foam. |
| Hazards Arising from Chemical: | During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: nitrous gases, fumes/smoke, isocyanate, vapour. |
| Protective Equipment for Firefighters: | Full protective clothing and self-contained breathing apparatus required. |

## Section 6: Accidental release measures

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| Personal Precautions: | Wear protective equipment. Clear the area. Keep unprotected persons away. Ensure adequate ventilation. |
| Environmental Precautions: | Do not allow to enter sewers or drainage. Construct a dike with absorbent, liquid-binding material to prevent spreading. |
| Methods for Clean Up: | For small amounts: Absorb isocyanate with suitable absorbent material. Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area. Dispose of material as contaminated waste in accordance with local and federal regulations. |

## Section 7: Handling and storage

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| Handling: | General good practice required. Ensure adequate ventilation. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing. No explosion proofing necessary. |
| Storage: | General advice: Formation of CO2 and build up of pressure possible. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture. Suitable materials for containers: carbon steel, high-density/low-density polyethylene, stainless steel. Storage temperature: 10-35°C/50-95°F, protect against moisture. |

## Section 8: Exposure controls and personal protection

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| Exposure Standards: | Hexamethylene-1,6-Diisocyanate (HDI)- OSHA: CLV 0.02 ppm, ACGIH: TWA value 0.005 ppm. |
| Engineering Controls: | Provide local exhaust ventilation to maintain recommended PEL. |
| Personal Protection: | Where ventilation is inadequate the use of an Air Purifying Respirator with a replaceable organic vapour filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended. Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337. Wear gloves of impervious material such as impervious PVC or rubber gloves. Reference should be made to AS/NZS 2161.1. Suitable work wear should be worn to protect personal clothing. Industrial clothing should conform to the specifications detailed in AS/NZS 2919. |

## Section 9: Physical and chemical properties

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| Appearance: | Clear, low-viscosity liquid. | | |
| Packaging: | 5-litre plastic container with screw top lid. | | |
| Odour: | Faint odour. | Odour Threshold: | Not determined. |
| pH: | Not determined. | Melting/Freezing Point: | Not determined. |
| Initial Boiling Point: | Not determined. | Boiling Point Range: | Not determined. |
| Flashpoint: | Not determined. | Evaporation Rate: | Not determined. |
| Flammability: | Not applicable. | Flammability Limits: | Not applicable. |
| Vapour Pressure: | 0.00001mm Hg @25°C. | Vapour Density: | Not determined. |
| Relative Density: | 1.14kg/L | Solubility in Water: | Insoluble, reacts slowly to liberate $CO_2$. |
| Partition Co-efficient: | Not determined. | Auto ignition Temp: | Not applicable. |
| Decomposition Temp.: | Not determined. | Viscosity: | Not determined. |

## Section 10: Stability and reactivity

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| Possibility of Hazardous Reactions: | Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids. Reacts with alkalis. Reacts with amines. Risk of exothermic reaction. Risk of violent reaction. Risk of polymerisation. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength. |
| Conditions to Avoid: | Moisture, excessive heat. |
| Incompatible Materials: | Water, alcohols, strong bases, substances that react with isocyanates. |
| Hazardous Decomposition Products: | Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapours. |

## Section 11: Toxicological information

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| Acute Toxicity: | Hexamethylene diisocyanate - Oral - Rat LD50 >5,000mg/kg (OECD 401).<br>Hexamethylene diisocyanate - Dermal - Rat LD50 >7,000mg/kg (OECD 402).<br>Hexamethylene diisocyanate - Inhalation - Rat LC50 (4hr) 400mg/m$^3$ (OECD 401).<br>Other Routes - No applicable toxicity data. |
| Skin Corrosion/Irritation: | No irritating effect (rabbit - OECD 404). |
| Eye Damage/Irritation: | No irritating effect (rabbit - OECD 405). |
| Respiratory or Skin Sensitisation: | Not harmful by skin contact or if swallowed. Harmful by inhalation. Inhalation of vapours may cause irritation of the mucous membranes of the nose, throat or trachea, breathlessness, chest discomfort, difficult breathing and reduced pulmonary function. |
| Germ Cell Mutagenicity: | Not considered to be genotoxic. |
| Carcinogenicity: | OSHA-Ca. Substance not listed. |
| Reproductive Toxicity: | Not considered to be hazardous to reproduction. |
| Aspiration Hazard: | No applicable toxicity data. |

## Section 12: Ecological information

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| Toxicity: | Is not acutely harmful to aquatic organisms. |
| Persistence and Degradability: | Not biodegradable. |
| Bioaccumulative Potential: | Low. |
| Mobility in Soil: | Adsorption to solid soil phase is not expected. |
| Other Adverse Effects: | None known. |

## Section 13: Disposal considerations

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| Disposal Methods: | Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system. Containers must be emptied before disposal. Comply with local, state and federal laws and regulations. |

## Section 14: Transport information

ADG
Not classified as a dangerous good.

IATA
Not classified as a dangerous good.

IMDG
Not classified as a dangerous good.

## Section 15: Regulatory information

Sara Section 312: Acute and Chronic health hazard.
Section 355: Substance not listed.
Section 313: CERCLA RQ 100 lbs. for hexamethylene diisocyanate.

Carcinogenic categories
EPA: not listed
IARC: not listed
NTP: not listed

TSCA listing: Listed

California Prop. 65
This product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

## Section 16: Other relevant information

Technical Services Information Officer: 0408 877 256