

EDGE PRO 80 SAFETY DATA SHEET



1. IDENTIFICATION

Product Identifier

Trade Name	Edge-Pro 80
Product Code	Edge-Pro 80 Part A

Recommended Use and Restriction on Use

Recommended Use	Polyurea Joint Filler
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Details of the Supplier of the Safety Data Sheet / Manufacturer / Supplier

Metzger/McGuire: PO Box 2217 Concord, NH 03302 Shipping Address: 807 Route 3-A Bow, NH 03304, Phone: 603-224-6122
Toll Free: 800-223-6680, Email: info@metzgermcguire.com

Distributor Detail

Region	New Zealand / Australia
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Lesas Systems 2017 LTD: 700 Great South Road, Penrose, P O Box 9826, Auckland, New Zealand, Phone: +64 9 526 7136, Fax: +64 9 525 2139,
Freephone: 0800 74 5372, Email: sales@lesasystems.co.nz

Emergency Contact	0800 764 766 - New Zealand National Poisons Centre
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2. HAZARD(S) IDENTIFICATION

Classification of Substance or Mixture	Acute toxicity (Oral): Category 4 Eye Dam./Irrit. Category 2A Skin sensitisation: Category 1 Acute aquatic toxicity: Category 1 Chronic aquatic toxicity: Category 1
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Label Elements

GHS Label Elements	The product is classified and labeled according to the Globally Harmonised System (GHS)
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GHS Pictogram(s)	
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Signal Word	Warning
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Hazard Statements	H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects.
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Precautionary Statements	P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 - Wash skin thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell. Rinse mouth. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention. P363 - Wash contaminate
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Additional Information	May produce an allergic reaction. Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
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HMIS Rating	Health: 2 Flammability: 1 Physical Hazard: 0
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture Description	Mixture of substances listed below with non-hazardous additions	
Dangerous Components:		
CAS: 68479-98-1	Diethylmethylbenzenediamine	5-15%
CAS: 102-60-3	Tetrahydroproplethylendiamine	5-10%

4. FIRST-AID MEASURES

Description of First Aid Measures

If Inhaled	If breathed in, move person into fresh air. Oxygen or artificial respiration if needed. In case of bluish discoloration (lips, ear lobes, fingernails), give oxygen as quickly as possible. Obtain medical attention.
In Case of Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with warm water and soap. If skin irritation occurs, seek medical advice/attention. Wash contaminated clothing before re-use. Destroy contaminated shoes.
In Case of Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
If Swallowed	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Obtain medical attention. Never give anything by mouth to an unconscious person.
Most Important Symptoms and Effects, Both Acute and Delayed	Sensitising effects
Notes to Physician	The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Agents	Water, haze or fog, foam, fire-extinguishing powder, Carbon dioxide
For Safety Reasons Unsuitable Extinguishing Agents	Water with full jet, water spray
Special Hazards Arising from the Substance or Mixture	No information available
Advice for Firefighters	
Protective Equipment	Wear self-contained respiratory protective device. Wear fully protective suit.
Additional Information	Cool endangered receptacles with water, fog or haze. Eliminate all ignition sources if safe to do so.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources.
Environmental Precautions	Toxic to aquatic life. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent from spreading (e.g. by damming-in or oil barriers).
Methods and Material for Containment and Cleaning Up	Absorb liquid components with liquid-binding material. Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling

Precautions for Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Handle and open container with care. Protect from moisture. To avoid thermal decomposition, do not overheat. Use only in area provided with appropriate exhaust ventilation. Avoid inhalation, ingestion and contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. Wash thoroughly after handling. Store in cool, dry place in tightly closed receptacles (16-27°C recommended).
Conditions for Safe Storage, Including any Incompatibilities	Keep containers tightly closed in a dry, cool and well ventilated place. Keep under nitrogen. Keep away from heat and flame.
Information about Storage Conditions	Keep container tightly sealed. Store in an area with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Ingredients with Limit Values that Require Monitoring at the Workplace	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Engineering Controls	Use mechanical ventilation for general area control. Ensure that extracted air cannot be returned to the workplace through the ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

General Protective and Hygienic Measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.
Respiratory Protection	Not required under normal conditions of use. Use respirator when performing operations involving potential exposure to vapour of the product.
Hand Protection	Protective, impervious gloves. (Neoprene, PVC, Nitrile rubber) The glove material has to be impermeable and resistant to the product / the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Eye Protection	Safety glasses with side shields. Contact lenses should not be worn.
Skin and Body Protection	Protective work clothing. Where potential exposure warrants, rubber or plastic boots and chemically resistant protective suit.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	
Form	Liquid
Colour	Cloudy
Odour	Amine-like
Odour Threshold	No data available
pH-value	No data available
Melting Point/Range	>200°C
Boiling Point/Boiling Range	>150°C
Evaporation Rate	No data available
Flammability (solid, gaseous)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable
Vapour Pressure	No data available
Vapour Density	No data available
Relative Density at 20°C	1.3g/cm ³
Solubility in / Miscibility with Water	Slightly soluble
Partition Coefficient (n-Octanol/Water)	No data available
Auto/Self-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	1000-3000 cps

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10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical Stability	
Thermal Decomposition / Conditions to be Avoided	No decomposition if used and stored according to specifications.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Exposure to moisture. Heat.
Incompatible Materials	Strong acids, bases and oxidising agents.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide. Nitrogen oxides (NOx) Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation	May cause respiratory sensitisation
Ingestion	No data
Skin Contact	May cause skin sensitisation
Eye Contact	May cause eye irritation
Symptoms Related to Physical, Chemical and Toxicological Characteristics	No available data for mixture itself
Delayed and Immediate Effects as Well as Chronic Effects From Short and Long-Term Exposure	No available data for mixture itself

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity	No further relevant information available
Persistence and Degradability	No relevant information available
Bioaccumulative Potential	No relevant information available
Mobility in Soil	No relevant information available
Results of PBT and vPvB Assessment	
PBT	Not applicable
vPvB	Not applicable
Additional Ecological Information	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

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13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste From Residue/Unused Product	This product should not be allowed to enter drains, water courses or the soil. Dispose of this material in a safe manner and in accordance with federal, state and local regulations.
Contaminated Packaging	Disposal must be made in accordance with official federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

UN-Number	Not regulated
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IATA

UN Number	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine)
Hazard Class	9
Packing Group	III
Label(s)	9
Marine Pollutant	Yes

IMDG

UN-Number	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine)
Hazard Class	9
Packing Group	III
Label(s)	9
Marine Pollutant	Yes

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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)

SARA

Section 355 (Extremely Hazardous Substances)	None of the ingredients are listed
Section 313 (Specific Toxic Chemical Listings)	Component(s) above 'de minimus' level: None
TSCA (Toxic Substances Control Act)	All ingredients are listed
Proposition 65 (California)	
Chemicals Known to Cause Cancer	None
Canada	
Canadian Domestic Substances List (DSL)	All ingredients are listed
Canadian Ingredient Disclosure List (Limit 0.1%)	None of the ingredients are listed
Canadian Ingredient Disclosure List (Limit 1%)	None of the ingredients are listed
Chemical Safety Assessment	A chemical safety assessment has not been carried out

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and Acronyms	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Global Harmonised System of Classification and Labelling of Chemicals ACGIH: American Conference of Government Industrial Hygienist EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substance CAS: Chemical Abstracts Service (Division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)</p>
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1. IDENTIFICATION

Product Identifier

Trade Name	Polyurea Hardener - Edge-Pro 80 Part B
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Recommended Use and Restriction on Use

Recommended Use	Polyurea Joint Filler
Restrictions on Use	No relevant information available

Details of the Supplier of the Safety Data Sheet

Manufacturer / Supplier	<p>METZGER/McGUIRE Mailing Address: PO Box 2217 Concord, NH 03302 Shipping Address: 807 Route 3-A Bow, NH 03304 Phone: 603-224-6122 Toll Free: 800-223-6680 Email: info@metzgermcguire.com</p>
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Distributor Detail

Region	New Zealand / Australia
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Lesas Systems 2017 LTD: 700 Great South Road, Penrose, P O Box 9826, Auckland, New Zealand, Phone: +64 9 526 7136, Fax: +64 9 525 2139, Freephone: 0800 74 5372, Email: sales@lesasystems.co.nz

Emergency Contact	0800 764 766 - New Zealand National Poisons Centre
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2. HAZARD(S) IDENTIFICATION

GHS Classification of the Substance or Mixture

Acute Tox. 4 (Inhalation Mist)	Acute Toxicity
Eye Dam./Irritant 2B	Serious eye damage/eye irritation
Skin Corr./Irritant 2	Skin Corrosion/irritation
Skin Sens. 1B	Skin sensitisation
Resp. Sens 1	Respiratory sensitisation
STOT SE (irritating)	Specific target organ toxicity - single exposure respiratory system
STOT SE (by inhalation)	Specific target organ toxicity - repeated exposure

Label Elements

GHS Label Elements	The product is classified and labeled according to the Globally Harmonized System (GHS).
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Hazard Pictograms	
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Signal Word	Danger
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Hazard Statements	<p>H315 - Causes skin irritation H317 - May cause an allergic skin reaction. H320 - Causes skin irritation. H332 - Harmful if inhaled. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H373 - May cause damage to organs (olfactory organs) through prolonged or repeated exposure (inhalation).</p> <p>- Precautionary statements: P280 - Wear protective gloves/protective clothing/eye protection. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe dust/gas/mist/vapours. P261 - Avoid breathing mist. P202 - Do not handle until all safety precautions have been read and understood. P284 - (In case of inadequate ventilation) wear respiratory protection. P272 - Contaminated work clothing must not be allowed out of the workplace. P264 - Wash with plenty of water and soap thoroughly after handling. P312 - Call a POISON CENTRE or doctor/physician if you feel unwell. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P314 - Get medical advice/attention if you feel unwell. P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water. P362 + P364 Take off contaminated clothing and wash before reuse. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337+P311 - If eye irritation persists: Call a POISON CENTRE or doctor/physician. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
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Additional Information	No specific dangers known, if the regulations/notes for storage and handling are considered.
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HMIS Rating	Health 2 Flammability 1 Physical Hazard 1
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation: Mixtures

Description	Mixture of substances listed below with potential non-hazardous additions
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Dangerous Components:

CAS: 101-68-8	Diphenylmethane-4,4'-disocyanate (MDI)	15-80%
CAS: 26447-40-5	Methylenediphenyl diisocyanate	<5%

4. FIRST-AID MEASURES

Description of First Aid Measures

General Advice	Remove contaminated clothing
If Inhaled	Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.
If on Skin	Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.
If in Eyes	In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.
If Swallowed	Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.
Most Important Symptoms and Effects, Both Acute and Delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Eye irritation Skin irritation Allergic Symptoms
Hazards	Symptoms can appear later

Information On: Diphenylmethane-4,4'-disocyanate (MDI)

Hazards	Respiratory sensitisation may result in allergic (asthma-like) signs in the lower respiratory tract including wheezing, shortness of breath and difficulty breathing, the onset of which may be delayed. Repeated inhalation of high concentrations may cause lung damage, including reduced lung function, which may be permanent. Substances eliciting lower respiratory tract irritation may worsen the asthma-like reactions that may be produced by product exposures.
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Indication of Any Immediate Medical Attention and Special Treatment Needed:

Note to Physician Antidote	Specific antidotes or neutralisers to isocyanates do not exist.
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5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Agents	Water spray, dry powder, carbon dioxide, foam
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Specific Hazards Arising from the Substance or Mixture	Hazards during fire-fighting: nitrous gases, fumes/smoke, isocyanate, vapour
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Advice for Firefighters

Protective Equipment	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
Additional Information	Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment
Environmental Precautions	Do not discharge into drains/surface waters/groundwater.
Methods and Material for Containment and Cleaning Up	For small amounts: Absorb isocyanate with suitable absorbent material (see § 40 CFR, sections 260, 264 and 265 for further information). Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90 % water, 8 % concentrated ammonia, 2% detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated, and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Protect against moisture. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing. Store in cool, dry place in tightly closed receptacles (16-27°C recommended).
Conditions for safe storage, including any incompatibilities	Keep away from water. Segregate from foods and animal feed. Segregate from acids and bases.
Further Information About Storage Conditions	KFormation of CO ₂ 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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Limits (Components)	Diphenylmethane-4,4'- OSHA PeI CLV0.02 ppm 0.2mg/m3: CLV diisocyanate (MDI) ACGIH TLV TWA value 0.005 ppm
Engineering Controls	Provide readily accessible eye wash stations and safety showers. Provide ventilation adequate to ensure concentrations are minimised.

Personal Protective Equipment

General Protective and Hygienic Measures	Wear protective clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL or TLV value. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of.
Respiratory Protection	When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place. For emergency or non-routine, high exposure situations, including confined space entry, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.
Hand Protection	Chemical resistant protective gloves should be worn to prevent all skin contact., Suitable materials may include, chloroprene rubber (Neoprene), nitrile rubber (Buna N), chlorinated polyethylene, polyvinylchloride (Pylox), butyl rubber, depending upon conditions of use.
Eye Protection	Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.
Skin and Body Protection	Cover as much of the exposed skin as possible to prevent all skin contact. Suitable materials may include, saran-coated material, depending upon conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance

Form	Liquid
Colour	Clear
Odour	Faint Aromatic
Odour Threshold	No data available
pH	No data available
Melting Point/ Melting Range	<0°C
Boiling Point/ Boiling Range	>200°C
Flash Point	>200°C
Evaporation Rate	No data available
Flammability (Solid, Gaseous)	Not applicable

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Upper/lower Flammability or Explosive Limit	Not applicable
Vapour Pressure	No data available
Vapour Density	No data available
Relative Density at 20°C	1.09g/cm ³
Solubility in / Miscibility with Water	Reacts with water
Partition Coefficient (n-octanol/water)	No data available
Auto/Self-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	2000 - 3000cps

10. STABILITY AND REACTIVITY

Reactivity	Corrosion to metals: No corrosive effect on metal.
Chemical Stability	
Thermal Decomposition / Conditions to be Avoided	No decomposition if used and stored according to specifications
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 polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.
Conditions to Avoid	Avoid moisture
Incompatible Materials	Acids, amines, alcohols, water, Alkalines, strong bases, Substances/products that react with isocyanates.
Hazardous Decomposition Products	Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapours.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure	Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.
Symptoms Related to Physical, Chemical and Toxicological Characteristics	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Eye irritation, skin irritation, allergic symptoms.

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Medical Conditions Aggravated by Overexposure	The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Medical supervision of all employees who handle or come into contact with isocyanates is recommended. Contact may aggravate pulmonary disorders. Persons with history of respiratory disease or hypersensitivity should not be exposed to this product. Pre-employment and periodic medical examinations with respiratory function tests (FEV, FVC as a minimum) are suggested. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended.
Delayed and Immediate Effects as Well as Chronic Effects From Short and Long-Term Exposure	Assessment of repeated dose toxicity: The substance may cause damage to the olfactory epithelium after repeated inhalation. The substance may cause damage to the lung after repeated inhalation. These effects are not relevant to humans at occupational levels of exposure.
Numerical Measures of Toxicity	ORAL: Information on: Diphenylmethane-4,4'-diisocyanate (MDI) Type of value: LD50 Species: rat (male/female) Value: > 2,000 mg/kg (Directive 84/449/EEC, B.1)
Inhalation	Type of value: LC50 Species: rat (male/female) Value: 2.0 mg/l (OECD Guideline 403) An aerosol was tested
Dermal	Information on: Diphenylmethane-4,4'-diisocyanate (MDI) Type of value: LD50 Species: rabbit (male/female) Value: > 9,400 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Assessment of Aquatic Toxicity	There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms. The product may hydrolyse. The test result may be partially due to degradation products. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Toxicity to Fish	LC0 (96 h) > 1,000 mg/l, Brachydanio rerio (OECD Guideline 203, static)
Aquatic Invertebrates	EC50 (24 h) > 1,000 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
Aquatic Plants	EC0 (72 h) 1,640 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201, static)
Persistence and Degradability	The product is unstable in water. The elimination data also refer to products of hydrolysis.
Bioaccumulative potential	No data available on the product itself.
Mobility in Soil	No data available
Other Adverse Effects	Effects: No further relevant information available

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13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste From Residue/unused Product	This product should not be allowed to enter drains, water courses or the soil. Dispose of this material in a safe manner and in accordance with federal, state and local regulations
Contaminated Packaging	Disposal must be made in accordance with official federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT	Not classified as a dangerous good under transport regulations
IATA	Not classified as a dangerous good under transport regulations
IMDG	Not classified as a dangerous good under transport regulations

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture Federal Regulations

Registration Status	Chemical TSCA, US released / listed
EPCRA 311/312 (Hazard categories):	Acute; Chronic
EPCRA 313	CAS Number: 101-68-8 Chemical Name: Diphenylmethane-4,4'-diisocyanate (MDI)
CERCLA RQ	5000 LBS
CAS Number	101-68-8
Chemical Name	8 Diphenylmethane-4,4'-diisocyanate (MDI)

State Regulations

State RTK	NJ, MA, NJ, PA
CAS Number	26447-40-5, 101-68-8
Chemical Name	Methylenediphenyl, Diphenylmethane-4,4'-diisocyanate (MDI)

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Abbreviations and Acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienist.
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substance
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)