EDGE PRO 90
SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier

Trade Name	Edge-Pro 90
Product Code	No other identifiers

Recommended Use and Restriction on Use

Recommended Use	Polyurea Joint Filler
Restrictions on Use	For professional use only

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

Lesa 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

2. HAZARD(S) IDENTIFICATION

Classification of Substance or Mixture	STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure
Label Elements	
GHS Label Elements	The product is classified and labeled according to the Globally Harmonised System (GHS)
GHS Pictogram(s)	 GHS08
Signal Word	Warning
Hazard Statements	H373 May cause damage to organs through prolonged or repeated exposure
Precautionary Statements	P260 - Do not breath mist/vapours/spray P314 - Get medical advice/attention if you feel unwell P501 - Dispose of contents/container in accordance with local/regional/national/international regulations
Other Hazards	There are no other hazards not otherwise classified that have been identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation	Mixtures	
Components:		
68479-98-1	Diethylmethylbenzenediamine  STOT RE 2. H373  Acute Tox.4, H32; Acute Tox.4, H312; Eye Irrit 2 A, H319	<5%
5285-60-9	4,4'-methylenebis[N-sec-butylaniline]  Acute Tox.4, H302	<5%
Additional Information	For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For wording of the listed Hazard Statements, refer to section 16.	

4. FIRST-AID MEASURES

Description of First Aid Measures

After Inhaled	Respiration of particulates is unlikely during normal usage. Supply fresh air; consult doctor in case of complaints.
After Skin Contact	Immediately wash with water and soap and rinse thoroughly. If skin irritation or rash occurs: Get medical advice/attention.
After Eye Contact	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After Swallowing	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.
Most Important Symptoms and Effects, Both Acute and Delayed	Gastric or intestional disorders when ingested. Nausea in case of ingestion. Slight irritant effect on skin and mucous membranes. Slight irritant effect on eyes.
Danger	May cause damage to organs through prolonged or repeated exposure.
Indication of Any Immediate Medical Attention and Special Treatment Needed	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Agents	CO2, extinguishing powder or water spray. Fight larger fires with water spray.
For Safety Reasons Unsuitable Extinguishing Agents	Water stream

Special Hazards Arising from the Substance or Mixture	Formation of toxic gases is possible during heating or in case of fire
Advice for Firefighters	
Protective Equipment	Wear self-contained respiratory protective device. Wear fully protective suit.
Additional Information	Us large quantities of foam as it is partially destroyed by the product. Cool endangered product with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Use personal protective equipment as required. For large spills, use respiratory protective device against the effects of fumes/dust/aersol. Ensure adequate ventilation.
Environmental Precautions	Do not allow to enter sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
Methods and Material for Containment and Cleaning Up	Absorb with liquid-binding material (sand,diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptables.
Reference to Other Sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE

Handling

Precautions for Safe Handling	Use only in well ventilated areas. Avoid splashes or spray in enclosed areas. Keep out of reach of children. Avoid contact with the eyes and skin.

Conditions for Safe Storage, Including any Incompatibilities

Requirements to be Met by Storerooms and Receptables	Store in cool, dry conditions in well sealed receptables. Avoid storage near extreme heat, ignition sources or open flame.
Information about Storage in One Common Storage Facility	Store away from foodstuffs. Store away from oxidising agents.
Specific End Use(s)	No relevant information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Components 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.
Exposure Controls	
General Protective and Hygenic Measures	The usual precautionary measuress for handling chemicals should be followed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aersols. Avoid contact with the eyes and skin.
Engineering Controls	No relevant information available.
Breathing Equipment	Not required under normal conditions of use.
Protection of Hands	Protective gloves: The glove material has to be impermeable and resistant to the product/the preparation.
Safety Glasses	Follow relevant national guidelines concerning the use of protective eyewear.
Body Protection	Protective work clothing.
Limitation and Supervision of Exposure into the Environment	No relevant information available
Risk Management Measures	No relevant information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	
Form	Liquid
Colour	Gray
Odour	Amine-like
Odour Threshold	Not determined
pH-value	Not determined
Melting Point/Range	Not determined
Boiling Point/Boiling Range	>200°C
Flash Point	>150°C
Flammability (solid, gaseous)	Not applicable
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Danger of Explosion	Product does not present an explosion hazard
Explosion Limits	
Lower	Not determined
Upper	Not determined
Oxdising Properties	Non-oxidising
Vapour Pressure	Not determined
Density	
Relative Density	1.03g/cm3 (8.6lbs/gal)
Vapour Density	Not determined
Evaporation Rate	Not determined
Solubility in / Miscibility with Water	Slightly soluable
Partition coefficient (n-octano/water)	Not determined
Viscosity	
Dynamic	Not determined
Kinematic	Not determined
Other Information	No relevant information available

10. STABILITY AND REACTIVITY

Reactivity	No relevant information available
Chemical Stability	Stable under normal temperatures and pressures
Thermal Decomposition / Conditions to be Avoided	No decomposition if used and stored according to specifications.
Possibility of Hazardous Reactions	Toxic fumes may be released if heated above the decomposition point. Reacts with catalysts, oxidising agents and strong alkali. Reacts with strong acids.
Conditions to Avoid	Moisture. Excessive heat.
Incompatible Materials	Oxidisers, strong bases, strong acids
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Acute Toxicity:	Based on available data, the classification criteria are not met
LD/LC50 Values that are Relevant for Classification	68479-98-1 diethylmethylbenzenediamine
Oral	LD50 738mg/kg (rat)
Dermal	LD50 >2000 mg/kg (rat)
Primary Irritant Effect	
On the Skin	Based on available data, the classification criteria are not met
On the Eye	Based on available data, the classification criteria are not met
Sensitisation	Based on available data, the classification criteria are not met
IARC (International Agency for Researcg on Cancer	None of the ingredients are listed
NTP (National Toxicology Program)	None of the ingredients are listed
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed
Probable Route(s) of Exposure	Ingestion, inhalation, eye contact, skin contact
Germ Cell Mutagencity	Based on available data, the classification criteria are not met
Reproductive Toxicity	Based on available data, the classification criteria are not met
STOT-Single Exposure	Based on available data, the classification criteria are not met
STOT-Repeated Exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration Hazard	Based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity	No further relevant information available
Persistance and Degradability	No relevant information available
Bioaccumulative Potential	No relevant information available
Mobility in Soil	No relevant information available
RAdditional Ecological Information	
General Notes	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system

Results of PBT and vPvB Assessment	
PBT	Not applicable
vPvB	Not applicable
Other Adverse Effects	No relevant information available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Recommendation	The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned Packagings

Recommendation	Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN-Number

DOT	Not regulated
ADR, IMDG, IATA	UN3082
UN Proper Shipping Name	
DOT	Not regulated
ADR, IMDG, IATA	Environmentally hazardous substance liquid, N.O.S. (diethylmethylbenzenediamine)
Transport Hazard Class(es)	
DOT	
Class	Not regulated
ADR	 Class 9 (M6), Label 9
IMDG, IATA	 Class 9 (M6), Label 9
Packing Group	
DOT	Not regulated
ADR, IMDG, IATA	III
Environmental Hazards	
Marine Pollutant	Symbol (fish and tree)
Special Precautions for User	Warning: Miscellaneous dangerous substances and articles
Danger Code (Kemler)	90
EMS Number	F-A-S-F
Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code	Not applicable
Transport/Additional Information	Not regulated when carried in single or combination packaging containing a net quatity of 5L or less for liquids or 5kg or less for solids per the following: ADR: SP 375, IMDG: 2.10.2.7, IATA: Special provision A197
DOT	

Remarks	Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

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 355 (Extremely Hazardous Substances)	None of the ingredients are listed
Section 313 (Extremely Hazardous Substances)	None of the ingredients are listed
TSCA (Toxic Substances Control Act)	All ingredients are listed
Proposition 65 (California)	
Chemicals Known to Cause Cancer	None of the ingredients are listed
Chemicals Known to Cause Developmental Toxicity For Females	None of the ingredients are listed
Chemicals Known to Cause Developmental Toxicity For Males	None of the ingredients are listed
Chemicals Known to Cause Developmental Toxicty	None of the ingredients are listed
EPA (Environmental Protection Agency)	None of the ingredients are listed
IARC (International Agency for Research on Cancer)	None of the ingredients are listed
Canadian Domestic Substances List (DSL) (Substances not listed)	All ingredients are listed

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	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 CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: Very persistent and very bioaccumulate OSHA: Occupational safety & health administration Acute Tox. 4: Acute toxicity - Category 4 Eye Irrit. 2A: Serious eye damage / eye irritation - Category 2 **Sources** GHS: Global Harmonised System of Classification and Labelling of Chemicals Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do), Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org), Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN:978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc.1305 North Florida Avenue, Tampa, Florida USA 33602-2902, Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com

1. IDENTIFICATION

Product Identifier

Trade Name	Edge-Pro 90 Part B
Product Code	No other identifiers

Recommended Use and Restriction on Use

Recommended Use	Polyurea Joint Filler
Restrictions on Use	For professional use only

Details of the Supplier of the Safety Data Sheet	
Manufacturer / Supplier	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

Distributor Detail	
Region	New Zealand / Australia
Lesa 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

2. HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture

Acute Tox. 4	H332 Harmful if inhaled
Skin Irrit 2.	H315 Causes skin irritation
Eye Irrit. 2A	H319 Causes serious eye irritation
Resp. Sens 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin Sens. 1	H317 May cause an allergic skin reaction
STOT SE 3	H335 May cause respiratory irritation
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure

Label Elements

GHS Label Elements	The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard Pictograms	
Signal Word	Danger

Hazard Statements	H332 - Harmful if inhaled. H315 - Causes skin irritation H319 - Causes serious eye irritation H334 - May cause allergy or asthma systoms or breathing difficulties if inhaled. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H373 - May cause damage through prolonged or repeated exposure · **Precautionary statements:** P260 - Do not breathe dust/gas/mist/vapours. P264 - Wash with plenty of water and soap thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eyeprotection. P284 - (In case of inadequate ventilation) wear respiratory protection. P302 + P352 If on skin: Wash with plenty of soap and water. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTRE or doctor/physician if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water. P337+P311 - If eye irritation persists: Call a POISON CENTRE or doctor/physician. P362 + P364 Take off contaminated clothing and wash before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.
Other Hazards	There are no other hazards not otherwise classified that have been identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation: Mixtures

Components		
101-68-8	4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	15%-80%
26447-40-5	4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	5-15%
Additional Information	For listed ingredient(s), the identoty and/or exact percentage(s) are being withheld as a trade secret. For wording of the listed Hazard Statements, refer to section 16.	

4. FIRST-AID MEASURES

Description of First Aid Measures

After Inhalation	Supply fresh air and to be sure to call for a doctor. Provide oxygen treatment if affected person has difficulty breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness place patient stably in side position for transportation.
After Skin Contact	Immediately remove any clothing soiled by the product. Immediately wash with water and soap and rinse thoroughly. If skin irritation or rash occurs: Get medical advice/attention.
After Eye Contact	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After Swallowing	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.
Most Important Symptoms and Effects, Both Acute and Delayed	Asthma attacks Breathing difficulty Coughing Dizziness Allergic reactions May cause respiratory irritation. Irritating to eyes, respiratory system and skin. Gastric or intestinal disorders when ingested. Nausea in case of ingestion.
Danger	Danger of impaired breathing. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.Suspected of causing cancer.
Indication of Any Immediate Medical Attention and Special Treatment Needed	Contains 4,4'-methylenediphenyl diisocyanate, methylenediphenyl diisocyanate. May produce an allergic reaction. Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible. Medical supervision for at least 48 hours. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. Treat skin and mucous membrane with antihistamine and corticoid preparations. In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Agents	CO2, extinguishing powder or water spray. Fight larger fires with water spray.
For Safety Reasons Unsuitable Extinguishing Agents	Water stream.

Specific Hazards Arising from the Substance or Mixture	During heating or in case of fire poisonous gases are produced.

Advice for Firefighters

Protective Equipment	Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit.
Additional Information	Cool endangered receptacles with water spray.

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. Isolate area and prevent access.
Environmental Precautions	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Methods and Material for Containment and Cleaning Up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.
Reference to Other Sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Prevent formation of aerosols. Avoid splashes or spray in enclosed areas. Use only in well ventilated areas.
Information About Protection Against Explosions and Fires	Keep respiratory protective device available.

Conditions for Safe Storage, Including any Incompatibilities

Requirements to Be Met by Storerooms and Receptacles	Avoid storage near extreme heat, ignition sources or open flame.
Information About Storage in One Common Storage Facility	Store away from foodstuffs. Store away from oxidisers, strong acids, strong bases.
Further Information About Storage Conditions	Keep containers tightly sealed. Protect from humidity and water.
Specific End Use(s)	No relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Components With Limit Values That Require Monitoring at the Workplace	101-68-8 4,4'-methylenediphenyl diisocyanate
PEL (USA)	Ceiling limit value: 0.2 mg/m³, 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min

TLV (USA)	Long-term value: 0.051 mg/m³, 0.005 ppm
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S(R)
EV (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm
LMPE (Mexico)	Long-term value: 0.005 ppm
26447-40-5 methylenediphenyl diisocyanate	
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm S
Exposure Controls	
General Protective and Hygienic Measures	The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid breathing mist, vapors, or spray. Avoid contact with the eyes and skin.
Engineering controls	No relevant information available
Breathing Equipment	Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.
Protection of Hands	Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Eye Protection	Safety glasses. Follow relevant national guidelines concerning the use of protective eyewear.
Body Protection	Protective work clothing
Limitation and Supervision of Exposure into the Environment	No relevant information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance

Form	Liquid
Colour	Clear
Odour	Faint Aromatic
Odour Threshold	Not determined
pH Value	Not determined
Melting Point/ Melting Range	<0°C
Boiling Point/ Boiling Range	>200°C
Flash Point	>200°C
Flammability (Solid, Gaseous)	Not applicable
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined

Decomposition Temperature	Not determined
Danger of Explosion	Product does not present an explosion hazard
Explosion Limits	
Vapour Density	No data available
Lower	Not determined
Upper	Not determined
Oxidising Properties	Not determined
Vapour Pressure	Not determined
Density	
Relative Density at 20˚C	1.10 g/cm³ (9.18 lbs/gal)
Vapour Density	Not determined
Evaporation Rate	Not determined
Solubility in / Miscibility with Water	Slowly reacts
Partition Coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic	Not determined
Kinematic	Not determined
Other Information	No relevant information available

10. STABILITY AND REACTIVITY

Reactivity	No relevant information available
Chemical Stability	Stable under normal temperatures and pressures
Thermal Decomposition / Conditions to be Avoided	No decomposition if used and stored according to specifications.
Possibility of Hazardous Reactions	Toxic fumes may be released if heated above the decomposition point. Reacts with catalysts, oxidising agents and strong alkali. Reacts with strong acids.
Conditions to Avoid	Moisture. Excessive heat.
Incompatible Materials	Oxidisers, strong bases, strong acids
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen cyanide (prussic acid) Isocyanate

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity:	Harmful if inhaled

LD/LC50 Values that are Relevant for Classification	101-68-8 4,4'-methylenediphenyl diisocyanate
Oral	LD50 2200mg/kg (mouse)
Primary Irritant Effect	
On the Skin	Irritant to skin and mucous membranes
On the Eye	Irritating effect
Sensitisation	May cause sensitisation by inhalation and skin contact
IARC (International Agency for Researcg on Cancer	None of the ingredients are listed
NTP (National Toxicology Program)	None of the ingredients are listed
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed
Probable Route(s) of Exposure	Ingestion, inhalation, eye contact, skin contact
Germ Cell Mutagencity	Based on available data, the classification criteria are not met
Reproductive Toxicity	Based on available data, the classification criteria are not met
STOT-Single Exposure	May cause respiratory irritation
STOT-Repeated Exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration Hazard	Based on available data, the classification criteria are not met

12.ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity	No relevant information available
Persistence and Degradability	No relevant information available
Bioaccumulative Potential	No relevant information available
Mobility in Soil	No relevant information available
Additional Ecological Information	
General Notes	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system
Results of PBT and vPvB Assessment	
PBT	Not applicable
vPvB	Not applicable
Other Adverse Effects	No relevant information available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Recommendation	Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
Uncleaned Packagings	
Recommendation	Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN-Number

DOT, ADR, IMDG, IATA	Not regulated
UN Proper Shipping name - DOT, ADR, IMDG, IATA	Not regulated
Transport Hazard Class(es) - DOT, ADR, IMDG, IATA Class	Not regulated
Packing Group DOT, ADR, IMDG, IATA	Not regulated
Environmental Hazards Marine Pollutant	No
Special Precautions For User	Not applicable
Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code	Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)
SARA

Section 302 (Extremely Hazardous Substances)	None of the ingredients are listed
Section 355 (Extremely Hazardous Substances)	None of the ingredients are listed
Section 313 (Specific Toxic Chemical Listings)	101-68-8, 4,4'-methylenediphenyl diisocyanate
TSCA (Toxic Substances Control Act)	All ingredients are listed
Proposition 65 (California)	
Chemicals Known to Cause Cancer	None of the ingredients are listed
Chemicals Known to Cause Developmental Toxicity For Females	None of the ingredients are listed
Chemicals Known to Cause Developmental Toxicity For Males	None of the ingredients are listed
Chemicals Known to Cause Developmental Toxicty	None of the ingredients are listed
EPA (Environmental Protection Agency)	101-68-8, 4,4'-methylenediphenyl diisocyanate
IARC (International Agency for Research on Cancer)	None of the ingredients are listed
Canadian Domestic Substances List (DSL) (Substances not listed)	All ingredients are listed

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	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 CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: Very persistent and very bioaccumulate OSHA: Occupational safety & health administration Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens, 1: Respiratory sensitisation - Category 1 Skin Sens, 1: Skin sensitisation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT SE 2: Specific target organ toxicity (repeated exposure) - Category 2 **Sources** Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN:978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com