

RAPID REFLOOR DATA SHEET

acc. to OSHA HCS (29CFR 1910.1200)
and WHMIS 2015 Regulations



1. IDENTIFICATION

Product Identifier

Trade Name	Rapid Refloor Part A Polyol
Product Code	No other identifiers

Recommended Use and Restriction on Use

Recommended Use	Component of a Control Joint Polyurethane System
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
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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
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2. HAZARD(S) IDENTIFICATION

Classification of Substance or Mixture	Eye Irrit. 2A H319 Causes serious eye irritation
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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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Hazard Pictogram(s)	GHS07
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Signal Word	Warning
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Hazard Statements	H319 - Causes serious eye irritation
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Precautionary Statements	P264 - Wash thoroughly after handling P280 - Wear eye protection P305 + P351 + P338 - If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy-to-do. Continue rinsing. P337 + P313 - If eye irritation persists get medical advice/attention.
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Other Hazards	There are no other hazards not otherwise classified that have been identified.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation: Mixture

Components

29253-36-9	Isopropyl naphthalene	Asp. Tox. 1H304	35-50%
25214-63-5	Ethylenediamine, propoxylated Acute Tox. 4, H302	Eye Irrit. 2A, H319	25-45%
7631-86-9	Precipitated silica (silica - amorphous)		2-5%

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13463-67-7	Titanium dioxide	01-6%
1333-86-4	Carbon black	0.5-2%

Additional Information:

Non-classification as a carcinogen is based on non-respirable form of product. For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements refer to section 16.

4. FIRST-AID MEASURES

Description of First Aid Measures

After Inhalation	Respiration of particulates is unlikely during normal usage. Supply fresh air; consult doctor in case of complaints.
After Skin Contact	Do not pull solidified product away from the skin. Immediately wash with water and soap and rinse thoroughly. If skin irritation is experienced, consult a doctor.
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	Causes eye irritation Slight irritant effect on skin and mucous membranes Gastric or intestinal disorders when ingested Nausea in case of indigestion
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.
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Ensure adequate ventilation Use personal protective equipment as required
Environmental Precautions	Do not allow product to reach sewage system or any water course. 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 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

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7. HANDLING AND STORAGE

Handling

Precautions for Safe Handling	Avoid splashes or spray in enclosed areas. Use only in well ventilated areas.
Information About Protection Against Explosions and Fires	No special measures required
Conditions for Safe Storage, Including Any Incompatibilities	

Storage

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 in cool, dry conditions in well sealed receptacles. Keep containers tightly sealed.
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	
7631-86-9 Precipitated Silica (silica - amorphous)	
NIOSH REL (USA)	Long-term value: 6 mg/m ³
OSHA PEL (USA)	Long-term value: 80 mg/m ³
13463-87-7 titanium dioxide	
PEL (USA)	Long-term value: 15* mg/m ³ *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC
EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust, **respirable fraction, IARC 2B
EV (Canada)	Long-term value: 10 mg/m ³ total dust
LMPE (Mexico)	Long-term value: 10 mg/m ³ A4
1333-86-4 N Carbon Black	
PEL (USA)	Long-term value: 3.5 mg/m ³
REL (USA)	Long-term value: 3.5 mg/m ³ *0.1 in presence of PAHs; See pocket Guide Apps A+C
TLV (USA)	Long-term value: 3* mg/m ³ *Inhalable fraction
EL (Canada)	Long-term value: 3 mg/m ³ IARC 2B
EV (Canada)	Long-term value 3.5 mg/m ³
LMPE (Mexico)	Long-term value: 3* mg/m ³ A3, *fracción inhalable

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Exposure Controls

Personal Protective Equipment 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. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin
Engineering Controls	No relevant information available
Breathing Equipment	Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection may be advisable.

Use Respiratory Protection When Grinding or Cutting Material

Protection of Hands	 Protective Gloves - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. PVC gloves, neoprene gloves, nitrile rubber, NBR
Eye Protection	 Safety Glasses
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	According to product specification
Odour	Slight
Odour Threshold	Not determined
pH-Value	10-12
Melting Point/Melting Range	Not determined
Boiling Point/Boiling Range	>177°C
Flash Point	>190°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
Oxidising Properties	Not determined

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Vapour Pressure at 20°	Not determined
Density	
Relative Density	1.02 - 1.05 g/cm ³ (8.512 - 8.762 lbs/gal)
Vapour Density	Not determined
Evaporation Rate	Not determined
Solubility in / Miscibility with	
Water	Slightly soluble
Partition Coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic	Not determined
Kinematic at 40°C	>20.5 mm ² /s
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	Excessive heat
Incompatible Materials	Oxidisers, strong bases, strong acids
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide Nitrogen Oxides (NO _x)

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

LD/LC50 Values that are Relevant for Classification	None
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Primary Irritant Effect

On the Skin	Skin irritant effect on skin and mucous membranes
On the Eye	Irritating effect

IARC (International Agency for Research on Cancer)

13463-67-7 Titanium Dioxide	2B
1333-86-4 Carbon Black	2B

NTP (National Toxicology Program)	None of the ingredients are listed
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed

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Probable Route(s) of Exposure	Ingestion. Eye contact. Skin contact.
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Contains known or suspect carcinogens when inhaled. Product is in non-inhalable form and is non-classifiable as a carcinogen.
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	Based on available data, the classification criteria are not met.
Aspiration Hazard	Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity	NToxic to aquatic life with long-lasting effects
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29253-36-9 IsopropylNaphthalene

LC50	0.74 mg/l (fish)
EC50	0.15 mg/l (daphnia)
Persistence and Degradability	No relevant information available
Bioaccumulative Potential	May be accumulated in organism
Mobility in Soil	No relevant information available
Ecotoxicological Effects	
Remark	Very toxic for fish

Additional Ecological Information

General Notes	Do not allow product to reach ground water, water course or sewage system. Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
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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.
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Uncleaned Packagings

Recommendation	Disposal must be made according to official regulations.
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14. TRANSPORT INFORMATION

UN-Number

DOT	Not regulated
ADR, IMDG, IATA	UN3082

UN Proper Shipping Name

DOT	Not regulated
ADR	Environmentally hazardous substance, liquid, N.O.S (isopropylnaphthalene)
IMDG	Environmentally hazardous substance, liquid, N.O.S (isopropylnaphthalene), Marine pollutant
IATA	Environmentally hazardous substance, liquid, N.O.S (isopropylnaphthalene)

Transport Hazard Class(es)

DOT Class	Not regulated.
ADR 	
Class	9 (M6) Miscellaneous dangerous substances and articles
Label	9
IMDG, IATA 	
Class	9 (M6) Miscellaneous dangerous substances and articles
Label	9

Packing Group

DOT	Not regulated
ADR, IMDG, IATA	III

Environmental Hazards

Marine Pollutant	Yes - symbol (fish and tree)
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Special Precautions for User	Warning: Miscellaneous dangerous substances and articles
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Danger Code (Kemier):	90
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EMS Number	F-A,S-F
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Transport in Bulk According to Annex ii of MARPOL73/78 and the IBC Code	Not applicable
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Transport /Additional Information	Not regulated when acried in single or combination packaging containing a net quantity of 5L or less for liquids or 5kg or less for solids per the following: DOT: 171.4(c)(2), ADR:SP 375, IMDG: 2.10.2.7, IATA: special provision A197
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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.
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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 365 (Extremely Hazardous Substances)	None of the ingredients are listed.
Section 313 (Specific Toxic Chemical Listings)	None of the ingredients are listed.
TSCA (Toxic Substances Control Act)	All ingredients are listed.

Proposition 65 (California)

Chemicals Known to Cause Cancer	Reference to chemical component(s) listed below are based on unbound respirable particles and are not generally applicable to product as supplied.
13463-67-7	Titanium dioxide
1333-86-4	Carbon black
Chemicals Known to Cause Reproductive Toxicity for Females	None of the ingredients are listed.
Chemicals Known to Cause Reproductive Toxicity for Males	None of the ingredients are listed.
Chemicals Known to Cause Developmental Toxicity	None of the ingredients are listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)	None of the ingredients are listed.
IARC (International Agency for Research on Cancer)	Reference to chemical component(s) listed below are based on unbound respirable particles and are not generally applicable to product as supplied.
13463-67-7	Titanium dioxide
1333-86-4	Carbon black

NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7	Titanium dioxide
1333-86-4	Carbon black

Canadian Domestic Substances List (DSL)	All ingredients are listed.
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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.

Date of preparation / last revision April 14, 2017 / -

Abbreviations and Acronyms	LDLo: Lowest Lethal Dose Observed 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: Persistent, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute of Occupational Safety OSHA: Occupational Safety & Health Administration Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Asp. Tox. 1 Aspiration hazard - Category 1
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., 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	Rapid Refloor Part B ISO
Other Means of Identification	No other identifiers
Recommended Use and Restriction on Use	
Recommended Use	Component of a Control Joint Polyurethane System: Caulking and Sealing
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

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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).
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Hazard Pictograms	  GHS07 GHS08
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Signal Word	Danger
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Hazard statements	H332 - Harmful if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation H373 - May cause damage to organs through prolonged or repeated exposure. - Precautionary statements: P260 - Do not breathe mist/vapors/spray P264 - Wash 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/eye protection P284 - In case of inadequate ventilation wear respiratory protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P341 - 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/doctor if you feel unwell P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a poison centre/doctor. P362+P364 - Take off contaminated clothing and wash it 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.
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Other Hazards	There are no other hazards not otherwise classified that have been identified.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation: Mixtures

Components

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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	80-95%
108-32-7	propylene carbonate Eye Irrit. 2A, H319	5-20%
Additional information	For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the 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
Indication of Any Immediate Medical Attention and Special Treatment Needed	Contains isocyanates. Consult literature for specific antidotes. 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

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Special 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 product 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

Handling

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

Storage

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.

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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/m ³ , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m ³ , 0.005 ppm
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S
EV (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm
LMPE (Mexico)	Long-term value: 0.005 ppm

Exposure Controls

Personal Protective Equipment

General Protective and Hygienic Measures	The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. 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.
Safety Glasses	Follow relevant national guidelines concerning the use of protective eyewear
Eye Protection	Safety glasses
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	Yellow
Odour	Aromatic
Odour Threshold	Not determined
pH-Value	Not determined
Melting Point/ Melting Range	5-20°C

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Boiling Point/Boiling Range	>200°C
Flash Point	Not applicable
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
Oxidising Properties	Not determined
Vapour Pressure at 25°C	<0.0001 mm Hg
Density	
Relative Density at 20°C	1.2 g/cm ³ (10.014 lbs/gal)
Vapour Density	Not determined
Evaporation Rate	Not determined
Solubility in / Miscibility with	
Water	Slowly reacts with water
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 alcohols, amines, aqueous acids and alkalis. Reacts with strong oxidizing agents Exothermic reaction
Conditions to Avoid	Moisture Excessive heat
Incompatible Materials	Oxidisers, strong bases, strong acids

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Hazardous decomposition products	Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen cyanide (prussic acid) Isocyanate
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11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity	
LD/LC50 values that are relevant for classification	
101-68-8 4,4'-methylenediphenyl diisocyanate	Oral LD50 2200 mg/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 Research 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
Acute Effects (Acute Toxicity, Irritation and Corrosivity)	Harmful if inhaled. Irritating to eyes, respiratory system and skin.
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	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.

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acc. to OSHA HCS (29CFR 1910.1200)
and WHMIS 2015 Regulations



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.
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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.
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Uncleaned Packagings

Recommendation	Disposal must be made according to official regulations.
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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

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Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code	Not applicable
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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 Reproductive Toxicity for Females	None of the ingredients are listed
Chemicals Known to Cause Reproductive Toxicity for Males	None of the ingredients are listed
Chemicals Known to Cause Developmental Toxicity	None of the ingredients are listed

Carcinogenic Categories

EPA (Environmental Protection Agency)	101-68-8 4,4'-methylenediphenyl diisocyanate	D, CBD
IARC (International Agency for Research on Cancer)	None of the ingredients are listed	
NIOSH-Ca (National Institute for Occupational Safety and Health)	All ingredients are listed	
Canadian Domestic Substances List (DSL)	All ingredients are listed	

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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.

Date of preparation / last revision May 14, 2017 / -

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: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health LDLo: Lowest Lethal Dose Observed 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 RE 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