

MM80

SAFETY DATA SHEET

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



1. IDENTIFICATION

Product Identifier

Trade Name	MM80
Product Code	MM80 Part A

Recommended Use and Restriction on Use

Recommended Use	Epoxy joint filler
Restrictions on Use	No relevant information available

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	Skin Irrit 2. H315 Causes skin irritation Eye Irrit 2A H319 Causes serious eye irritation Skin Sens. 1 H317 May cause an allergic skin reaction
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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)	 GH507
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Signal Word	Warning
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Hazard Statements	H315 - Causes skin irritation H319 - Causes serious eye irritation H317 - May cause an allergic skin reaction
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Precautionary Statements	P261 - Avoid breathing mist, vapours, or spray. P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/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. P302+P352 - If on skin: Wash with plenty of water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. 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		
	Trade Secret Polyglycidyl ether ⚠ Skin Irrit 2, 4, H315; Eye Irrit 2A, H319, Skin Sens. 1B, H317	30-60%
25068-38-6	Reaction product; bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700) ⚠ Skin Irrit. 2, H315; Eye Irrit 2, H319; Skin Sens. 1, H317	20-40%
100-51-6	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 1, 2A H319	<2%

Additional Information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. Non-classification as a carcinogen is based on non-respirable form of product. 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; 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 or rash occurs: Get medical advice/attention.
After Eye Contact	Remove contact lenses if worn, if possible. 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	Headache Breathing difficulty Coughing Allergic reactions Irritant to skin and mucous membranes Irritant to eyes Nausea in case of ingestion Gastric or intestinal disorders when ingested Vomiting Diarrhea Danger: Danger of impaired breathing Indication of any immediate medical attention and special treatment needed: Medical supervision for at least 24 hours. Contains reaction product bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700). May produce an allergic reaction. Treat skin and mucous membrane with antihistamine and corticoid preparations. If medical advice is needed, have product container label at hand.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Agents	Water, fog/haze. Foam. Gaseous extinguishing agents, fire-extinguishing powder
For Safety Reasons Unsuitable Extinguishing Agents	Water spray.

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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.

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 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 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	Use only in well ventilated areas. Prevent formation of aerosols. Keep out of reach of children. Avoid contact with the eyes and skin.
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 oxidising agents. Do not store together with acids. 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. The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

100-51-6 benzyl alcohol - WEEL (USA) Long-term value: 10ppm

Exposure Controls

Personl protective equipment: General protective and hygenic 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 contact with the eyes and skin. Avoid breathing mist, vapors, or spray.
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Engineering Controls	No relevant information available
Breathing Equipment	Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
Protection of Hands	Protective gloves - material of gloves, nitrile rubber, NBR, PVC gloves
Eye Protection	Safety glasses
Body Protection	Protective work clothing
Limitation and Supervision of Exposure into the Environment	Avoid release to the environment

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	
Form	Viscous liquid
Colour	Gray
Odour	Sweetish
Odour Threshold	Not determined
pH-value	Not determined
Boiling Point/Boiling Range	Not determined
Flash Point	>93°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

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Upper	Not determined
Oxidising Properties	Not determined
Vapour Pressure	Not determined
Density	
Relative Density at 20°C	1.35g/cm ³
Vapour Density	Not determined
Evaporation Rate	Not determined
Solubility in / Miscibility with	
Water	Not miscible or difficult to mix
Partition Coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic	7000-14000 cPs
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	Exothermic polymerisation Reacts with oxidising agents Reacts with strong acids and alkali Reacts with peroxides and other radical forming substances
Conditions to Avoid	Store away from oxidising agents. Avoid acids. Excessive heat
Incompatible Materials	Oxidisers, strong bases, strong acids
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity	Based on available data, the classification criteria are not met.
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LD/LC50 Values that are Relevant for Classification

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin epoxy resin (number average molecular weight ≤700))	Oral LD50 >2000 mg/kg (rat, female) Dermal LD50 >2000 mg/kg (rat)
100-51-6 benzyl alcohol	Oral LD50 1230 mg/kg (rat) Dermal LD50 2000 mg/kg (rabbit)

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Primary Irritant Effect	
On the Skin	Irritant to skin and mucous membranes
On the Eye	Irritating effect
Sensitisation	Sensitisation possible through skin contact
IARC (International Agency for Research on Cancer)	None of the ingredients are listed
NTP (National Toxicology Programme)	None of the ingredients are listed
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed
Probable Routes(s) of Exposure	Ingestion, inhalation, eye contact, skin contact
Acute Effects (Acute Toxicity, Irritation and Corrosivity)	Irritating if inhaled, causing symptoms of coughing and shortness of breath. Danger through skin absorption.
Repeated Dose Toxicity	No relevant information available
CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction)	
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	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	Toxic to aquatic life with long lasting effects
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25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

LC50	1.2 mg/l (Oncorhynchus mykiss)
LC50	2.4 mg/l (zebra fish) (96hr)
EC50	2.7 mg/kg(daphnia) (48hr)

100-51-6 benzyl alcohol

LC50	460mg/l (pimephales promelas)
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 product to reach ground water, water course or sewage system.
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Results of PBT and vPvB Assessment

PBT	Not applicable
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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 non-hazardous 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
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ADR, IMDG, IATA	UN3082
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UN Proper Shipping Name

DOT	Not regulated
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ADR, IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIPHENOL-A EPOXY RESIN) Environmentally hazardous substance, liquid n.o.s. (Bisphenol-A epoxy resin)
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Transport Hazard Class(es)

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

DOT	Not regulated.
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ADR, IMDG, IATA	III
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Environmental Hazards	Product contains environmentally hazardous substances: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
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Marine Pollutant	Symbol (fish and tree)
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Special Precautions for User	Warning: Miscellaneous dangerous substances and articles
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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 quantity of 5L or less for liquids or 5 kg or less for solids per the following: DOT: 171.4(c)(2) 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 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 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)	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 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	107-21-1 ethylene glycol

Carcinogenic Categories

EPA (Environmental Protection Agency)	None of the ingredients are listed
IARC (International) Agency for Research on Cancer)	None of the ingredients are listed
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients are listed
Canadian Domestic Substances List (DSL)	All ingredients 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.

Date of preparation / last revision May 14, 2018 / -

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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 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 OSHA: Occupational Safety & Health Administration Flam. Liq. 4: Flammable liquids – Category 4 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation - Category 1B</p>
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Sources	<p>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</p>
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1. IDENTIFICATION

Product Identifier	
Trade Name	MM80 Part B
Recommended Use and Restriction on Use	
Recommended Use	Epoxy 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>
Distributor Detail	
Region	New Zealand / Australia
<p>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</p>	
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. H312 - Harmful in contact with skin
Acute Tox. 2	H330 - Fatal if inhaled
Skin Corr. 1B	H314 - Causes severe skin burns and eye damage
Eye Dam. 1	H318 - Causes severe serious eye damage
Skin Sens. 1	H317 - May cause an allergic skin reaction
Muta. 2	H341 - suspected of causing genetic defects
Repr. 2	H361 - Suspected of damaging fertility or the unborn child. Route of exposure: Oral
STOT SE 3	H335 - May cause respiratory irritation
Addition Information	H330 - Hazard applies to aerosolised material only

Label Elements

GHS Label Elements	The product is classified and labeled according to the Globally Harmonized System (GHS).
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Hazard Pictograms	 GHS05 GHS06 GHS07 GHS08
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Signal Word	Danger
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Hazard Statements	<p>H302+H312 - Harmful if swallowed or in contact with skin. H330 - Fatal if inhaled. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H341 - Suspected of causing genetic defects. H361 - Suspected of damaging fertility or the unborn child. Route of exposure: Oral H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure.</p> <p>Precautionary statements: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling. P284 - In case of inadequate ventilation wear respiratory protection. P264 - wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection. P285 - In case of inadequate ventilation wear respiratory protection. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing must not be allowed out of the workplace. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rins skin with water/ shower. 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. P363 - Wash contaminated clothing before reuse. P301+P330+P331 - If swallowed: Rinse mouth. Do NOT induce vomiting. P308+P313 - If exposed or concerned. Get medical advice/attention. P405 - Store locked up. 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.</p>
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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:		
111-40-0	2,2' - iminodiethylamine ☠ Acute Tox. 2 H330 ☠ Skin Corr. 1B H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; STOT SE 3 H335	25-50%
80-05-7	bisphenol A ☠ Repr. 2, H361 ☠ Eye Dam. 1 H318 ⚠ Skin Sens. 1, H317; STOT SE H335	20-50%
84852-15-3	4-nonylphenol, branched ☠ Repr. 2, H361 ☠ Skin Corr. 1B, H314: Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	15-25%
	Trade Secret Amidoamine ☠ Muta. 2, H341 ☠ Skin Corr. 1B H314 ⚠ Skin Sens. 1, H317; STOT SE H335	5-15%
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 Statement refer to section 16.	

4. FIRST-AID MEASURES

Description of First Aid Measures

After Inhalation	Supply fresh air; consult a 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 or rash occurs; get medical advice/attention. Seek immediate medical help for blistering or open wounds.
After Eye Contact	Protect unharmed eye. Remove contact lenses if worn, if possible. 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	Headache Breathing difficulty Coughing Allergic reactions Strong caustic effect on skin and mucous membranes May cause respiratory irritation Nausea in case of ingestion Gastric or intestinal disorders when ingested. Vomiting Diarrhea
Danger	Danger of impaired breathing Danger of gastric perforation Harmful if swallowed or in contact with skin Cause severe skin burns and eye damage Fatal if inhaled Suspected of damaging fertility of the unborn child. Route of exposure: Oral Suspected of causing genetic defects.

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Indication of Any immediate Medical Attention and Special Treatment Needed	Medical supervision for at least 48 hours. Contains 2,2" - iminodiethylamine, bisphenol A, Trade Secret Polyamido amine. May produce an allergic reaction. Treat skin and mucous membrane with antihistamine and corticoid preparations. If medical advice is needed, have product container or label at hand.
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5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Agents	Water, fog/haze. Foam. Gaseous extinguishing agents, fire-extinguishing powder
For Safety Reasons Unsuitable Extinguishing Agents	Water spray.

Special Hazards Arising from the Substance or Mixture	Formation of toxic gases is possible during heating or in case of fire
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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	Use respiratory protective device against the effects of fumes/dust/aerosol Ensure adequate ventilation Use personal protective equipment as required
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 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	Use only in well-ventilated areas. Prevent formation of aerosols. Keep out of reach of children. Avoid contact with the eyes and skin. Avoid breathing mist, vapours or spray.
Information About Protection Against Explosions and Fires	Keep respiratory protective device available

Conditions for safe storage, including any incompatibilities

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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 oxidising agents Do not store together with acids
Further Information About Storage Conditions	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

111-40-2,2'-iminodiethylamine

REL (USA)	Long-term value: 4 mg/m ³ , 1ppm, skin
TLV (USA)	Long-term value: 4.2 mg/m ³ , 1 ppm, skin
EL (Canada)	Long-term value: 1 ppm Skin; S
EV (Canada)	Long-term value: 4 mg/m ³ , 1ppm, skin
LMPE (Mexico)	Long-term value: 1 ppm, PIEL

Exposure Controls

Personal Protective Equipment. General Protect 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 Pregnant women should strictly avoid inhalation or skin contact
Engineering Controls	No relevant information available
Breathing Equipment	Use suitable respiratory protective device when aerosol or mist is formed. Use respiratory protection when grinding or cutting material.
Protection of Hands	Protective gloves. Nitrile rubber, NBR, Neoprene gloves, Butyl rubber, BR
Eye Protection	Safety glasses
Body Protection	Protective work clothing
Limitation and Supervision of Exposure into the Environment	Avoid release to the environment

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance

Form	Liquid
Colour	Light amber

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Odour	Amine -like
Odour Threshold	Not determined
pH-value	Not determined
Melting Point/ Melting Range	Not determined
Boiling Point/ Boiling Range	>149°C (300°F)
Flash Point	>93°C (199°F)
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 Limitsd	
Lower	Not determined.
Upper	Not determined
Oxidising Properties	Not determined
Vapour Pressure	Not determined
Density	
Relative Density at 20°C (68°F)	0.99 g/cm ³ (8.262 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	200-500 cPs
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

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Possibility of Hazardous Reactions	Exothermic polymerisation Reacts with oxidising agents Reacts with strong acids and alkali Reacts with peroxides and other radical forming substances Reacts with catalysts
Conditions to Avoid	Store away from oxidising agents Avoid acids Excessive heat
Incompatible Materials	Oxidisers, strong bases, strong acids
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide, Nitrogen oxides (NOx), Ammonia

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

LD/LC50 values that are relevant for classification

111-40-0 2,2'-iminodierhylamine Oral LD50 1080 mg/kg (rat), Dermal LD50 1090 mg/kg (rabbit), Inhalative LD50/4h 0.3 mg/l (rat)

80-05-7 bisphenol A Oral LD50 3250 mg/kg (rat), Dermal LD50 3000 mg/kg (rabbit)

On the Eye Irritating effect

Primary Irritant Effect

On the Skin Caustic effect on skin and mucous membranes

On the Eye Strong caustic effect

Sensitisation Sensitisation possible through skin contact

IARC (International Agency for Research on Cancer) None of the ingredients are listed

NTP (National Toxicology Programme) None of the ingredients are listed

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

Probable route(s) of exposure Ingestion, Eye contact, Skin contact

Acute Effects (Acute Toxicity, Irritation and Corrosivity) Irritating if inhaled, causing symptoms of coughing and shortness of breath.
Danger through skin absorption.
Harmful if swallowed or in contact with skin.
Fatal if inhaled.

Repeated Dose Toxicity Possible risk of irreversible effects

CMR Effects (Carcinogenity, Mutagenicity and Toxicity for Reproduction) Muta. 2, Repr. 2

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Germ Cell Mutagenicity	Suspected of causing genetic defects
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child. Route of exposure: Oral.
STOT-Single Exposure	May cause respiratory irritation
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	Toxic to aquatic life with long lasting effects
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	Avoid release to the environment
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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, ADR, IMDG, IATA	UN2735
UN Proper Shipping name - DOT, ADR, IMDG, IATA	Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, Polyamidoamine) A M I N E S , L I Q U I D , C O R R O S I V E , N . O . S . (D I E T H Y L E N E T R I A M I N E , P O L Y A M I D O A M I N E) , E N V I R O N M E N T A L L Y H A Z A R D O U S A M I N E S , L I Q U I D , C O R R O S I V E , N . O . S . (D I E T H Y L E N E T R I A M I N E , P O L Y A M I D O A M I N E) , M A R I N E P O L L U T A N T

Transport Hazard Class(es)

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DOT	8 Corrosive substances, 8
ADR	8 (C7) Corrosive substances, 8
IMDG	8 Corrosive substances
IATA	8 Corrosive substances, 8
Packing Group DOT, ADR, IMDG, IATA	II
Environmental Hazards	Product contains environmentally hazardous substances: 4-nonylphenol, branched
Marine Pollutant	Yes - symbol (fish and tree)
Special Precautions For User	Warning: Corrosive Substances
Danger Code (Kemler)	80
EMS Number	F-A, S-B
Segregation Groups	Alkalis
Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code	Not Applicable
Transport/Additional Information	Mist is not likely to be generated in a leakage of transport container.
DOT	Product is additionally classified as a Marine Pollutant based on MARPOL and DOT rules. Labeling as a Marine Pollutant 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 for a liquid and a maximum net mass greater than 400kg for a solid.
	Limited Quantity for packages less than 30kg gross and inner packagings less than 1L each.
ADR	Limited Quantity for packages less than 30kg gross and inner packagings less than 1L each.
IMDG	Limited Quantity for packages less than 30kg gross and inner packagings less than 1L each.
IATA	Limited Quantity for packages less than 30kg gross and inner packagings less than 0.1L each/0.5L net.

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)	84852-15-3, 4-nonylphenol, branched 80-05-7 bisphenol A
TSCA (Toxic Substances Control Act)	All ingredients are listed

Proposition 65 (California)

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Chemicals Known to Cause Cancer	None of the ingredients are listed
Chemicals Known to Cause Reproductive Toxicity For Females	80-05-7 - bisphenol
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)	None of the Ingredients are listed
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the Ingredients are listed
Canadian Domestic Substances List (DSL)	All 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.

Date of preparation / last revision 10/21/2016/-

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, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health Administration LDLo: Lowest Lethal Dose Observed Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 2 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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Sources	<p>Website, European Chemicals Agency (echa.europa.eu)</p> <p>Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)</p> <p>Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)</p> <p>Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6</p> <p>Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.</p> <p>Safety Data Sheets, Individual Manufacturers</p> <p>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</p>
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