

# MM80P

## SAFETY DATA SHEET

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



### 1. IDENTIFICATION

#### Product Identifier

Trade Name	MM80P
Product Code	MM80P 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		
25068-38-6	Reaction product; bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq 700$ ) Skin Irrit. 2, H315: Eye Irrit 2, H319; Skin Sens. 1, H317	30-60%
100-51-6	Trade Secret Polyglycidyl ether Skin Irrit. 2, H315: Eye Irrit 2, H319; Skin Sens. 1, H317	20-40%

#### 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 48 hours. Contains reaction product bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq 700$ ). 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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<b>Special Hazards Arising from the Substance or Mixture</b>	Formation of toxic gases is possible during heating or in case of fire
<b>Advice for Firefighters</b>	
<b>Protective Equipment</b>	Wear self-contained respiratory protective device. Wear fully protective suit.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Ensure adequate ventilation Use personal protective equipment as required
<b>Environmental Precautions</b>	Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
<b>Methods and Material for Containment and Cleaning Up</b>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) Do not allow to dry out. Send for recovery or disposal in suitable receptacles
<b>Reference to Other Sections</b>	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

<b>Precautions for Safe Handling</b>	Use only in well ventilated areas. Prevent formation of aerosols. Keep out of reach of children. Avoid contact with the eyes and skin.
<b>Information about Protection Against Explosions and Fires</b>	Keep respiratory protective device available
<b>Conditions for Safe Storage, Including any Incompatibilities</b>	
<b>Requirements to be Met by Storerooms and Receptacles</b>	Avoid storage near extreme heat, ignition sources or open flame.
<b>Information about Storage in One Common Storage Facility</b>	Store away from foodstuffs. Store away from oxidising agents. Do not store together with acids.
<b>Further information About Storage Conditions</b>	Keep containers tightly sealed
<b>Specific End Use(s)</b>	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

<b>Personal protective equipment: General protective and hygienic measures:</b>	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.
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<b>Engineering Controls</b>	No relevant information available
<b>Breathing Equipment</b>	Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
<b>Protection of Hands</b>	Protective gloves - material of gloves, nitrile rubber, NBR, PVC gloves
<b>Eye Protection</b>	Safety glasses
<b>Body Protection</b>	Protective work clothing
<b>Limitation and Supervision of Exposure into the Environment</b>	Avoid release to the environment

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

<b>Appearance</b>	
<b>Form</b>	Liquid
<b>Colour</b>	Gray
<b>Odour</b>	Sweetish
<b>Odour Threshold</b>	Not determined
<b>pH-value</b>	Not determined
<b>Boiling Point/Boiling Range</b>	Not determined
<b>Flash Point</b>	>93°C
<b>Flammability (solid, gaseous)</b>	Not applicable
<b>Auto-ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Danger of Explosion</b>	Product does not present an explosion hazard
<b>Explosion Limits</b>	
<b>Lower</b>	Not determined

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Upper	Not determined
Oxidising Properties	Not determined
Vapour Pressure	Not determined
<b>Density</b>	
Relative Density at 20°C	1.24g/cm <sup>3</sup>
Vapour Density	Not determined
Evaporation Rate	Not determined
<b>Solubility in / Miscibility with</b>	
Water	Not miscible or difficult to mix
Partition Coefficient (n-octanol/water)	Not determined
<b>Viscosity</b>	
Dynamic	3000-7000 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.
<b>LD/LC50 Values that are Relevant for Classification</b>	
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)
<b>Primary Irritant Effect</b>	
On the Skin	Irritant to skin and mucous membranes

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<b>On the Eye</b>	Irritating effect
<b>Sensitisation</b>	Sensitisation possible through skin contact
<b>IARC (International Agency for Research on Cancer)</b>	None of the ingredients are listed
<b>NTP (National Toxicology Programme)</b>	None of the ingredients are listed
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	None of the ingredients are listed
<b>Probable Route(s) of Exposure</b>	Ingestion, inhalation, eye contact, skin contact
<b>Acute Effects (Acute Toxicity, Irritation and Corrosivity)</b>	Irritating if inhaled, causing symptoms of coughing and shortness of breath. Danger through skin absorption.
<b>Repeated Dose Toxicity</b>	No relevant information available
<b>CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction)</b>	
<b>Germ Cell Mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-Single Exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-Repeated Exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration Hazard</b>	Based on available data, the classification criteria are not met

## 12. ECOLOGICAL INFORMATION

### Toxicity

<b>Aquatic Toxicity</b>	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  $\leq 700$ )

<b>EC50</b>	2.7 mg/kg(daphnia) (48hr)
<b>LC50</b>	460mg/l (pimephales promelas)
<b>Persistence and Degradability</b>	No relevant information available
<b>Bioaccumulative Potential</b>	No relevant information available
<b>Mobility in Soil</b>	No relevant information available

### Additional Ecological Information

<b>General Notes</b>	Do not allow product to reach ground water, water course or sewage system.
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### Results of PBT and vPvB Assessment

<b>PBT</b>	Not applicable
<b>vPvB</b>	Not applicable
<b>Other Adverse Effects</b>	No relevant information available

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

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<b>Recommendation</b>	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

<b>Recommendation</b>	Disposal must be made according to official regulations.
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## 14. TRANSPORT INFORMATION

### UN-Number

<b>DOT</b>	Not regulated
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<b>ADR, IMDG, IATA</b>	UN3082
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### UN Proper Shipping Name

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

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

<b>DOT</b>	Not regulated.
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<b>ADR, IMDG, IATA</b>	III
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<b>Environmental Hazards</b>	Product contains environmentally hazardous substances: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq 700$ )
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<b>Marine Pollutant</b>	Symbol (fish and tree)
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<b>Special Precautions for User</b>	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 10/21/2016



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<b>Abbreviations and Acronyms</b>	<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 &amp; Health Administration          LDLo: Lowest Lethal Dose Observed          Skin Irrit.2: Skin corrosion/irritation- Category 2          Eye Irrit. 2: Serious eye damage/eye irritation – Category 2          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>
<b>Sources</b>	<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>

## 1. IDENTIFICATION

### Product Identifier

<b>Trade Name</b>	MM80P <b>Part B</b>
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### Recommended Use and Restriction on Use

<b>Recommended Use</b>	Epoxy Joint Filler
<b>Restrictions on Use</b>	No relevant information available

### Details of the Supplier of the Safety Data Sheet

<b>Manufacturer / Supplier</b>	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
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### Distributor Detail

<b>Region</b>	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	
<b>Emergency Contact</b>	0800 764 766 - New Zealand National Poisons Centre

## 2. HAZARD(S) IDENTIFICATION

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### Classification of the Substance or Mixture

<b>Acute Tox. 4</b>	H302 - Harmful if swallowed H312 - Harmful in contact with skin
<b>Acute Tox. 3</b>	H331 - Toxic if inhaled
<b>Skin Corr. 1B</b>	H314 - Causes severe skin burns and eye damage
<b>Eye Dam. 1</b>	H318 - Causes severe serious eye damage
<b>Skin Sens. 1</b>	H317 - May cause an allergic skin reaction
<b>Muta. 2</b>	H341 - suspected of causing genetic defects
<b>Repr. 2</b>	H361 - Suspected of damaging fertility or the unborn child. Route of exposure: Oral
<b>STOT SE 3</b>	H335 - May cause respiratory irritation
<b>Addition Information</b>	H331 - Hazard applies to aerosolised material only

### Label Elements

<b>GHS Label Elements</b>	The product is classified and labeled according to the Globally Harmonized System (GHS).
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<b>Hazard Pictograms</b>	 GHS05 GHS06 GHS07 GHS08
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<b>Signal Word</b>	Danger
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<b>Hazard Statements</b>	<p>H302+H312 - Harmful if swallowed or in contact with skin. H331 - Toxic 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.</p> <p><b>Precautionary statements:</b> 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. P280 - Wear protective gloves/protective clothing/eyeprotection. P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye 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. P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
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<b>Other Hazards</b>	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:		
84852-15-3	4-nonylphenol, branched ⚠ Repr. 2, H361 ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	25-50%
	Trade Secret Amidoamine ⚠ Muta. 2, H341 ⚠ Skin Corr. 1B H314 ⚠ Skin Sens. 1, H317; STOT SE H335	5-20%
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%
100-51-6	benzyl alcohol ⚠ Acute Tox. 4 H302 ⚠ Acute Tox. 4 H332 ⚠ Eye Irrit. 2A. H319	5-15%
	Trade Secret Amidoamine ⚠ Skin Irrit. 2 ⚠ Skin Corr. 1B H315 ⚠ Eye Irrit. 2A, H319	
<b>Additional Information</b>	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

<b>After Inhalation</b>	Supply fresh air; consult a doctor in case of complaints.
<b>After Skin Contact</b>	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.
<b>After Eye Contact</b>	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.
<b>After Swallowing</b>	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.
<b>Most Important Symptoms and Effects, Both Acute and Delayed</b>	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

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<b>Danger</b>	Danger of impaired breathing Danger of gastric perforation Harmful if swallowed or in contact with skin Causes severe skin burns and eye damage Toxic if inhaled Suspected of damaging fertility of the unborn child. Route of exposure: Oral Suspected of causing genetic defects.
<b>Indication of Any Immediate Medical Attention and Special Treatment Needed</b>	Medical supervision for at least 48 hours. Contains Trade Secret Polyamido amine, 2,2" - iminodiethylamine, bisphenol A. 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.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

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

<b>Special Hazards Arising from the Substance or Mixture</b>	Formation of toxic gases is possible during heating or in case of fire
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#### Advice for Firefighters

<b>Protective Equipment</b>	Wear self-contained respiratory protective device. Wear fully protective suit.
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### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Use respiratory protective device against the effects of fumes/dust/aerosol Ensure adequate ventilation Use personal protective equipment as required
<b>Environmental Precautions</b>	Do not allow to enter sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
<b>Methods and Material for Containment and Cleaning Up</b>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.
<b>Reference to Other Sections</b>	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** 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

**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<sup>3</sup>, 1ppm, skin

**TLV (USA)** Long-term value: 4.2 mg/m<sup>3</sup>, 1 ppm, skin

**EL (Canada)** Long-term value: 1 ppm  
Skin; S

**EV (Canada)** Long-term value: 4 mg/m<sup>3</sup>, 1ppm, skin

**LMPE (Mexico)** Long-term value: 1 ppm, PIEL

#### 100-51-6 ibenzyl alcohol

**WEEL (USA)** Long-term value: 10ppm

### 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

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<b>Body Protection</b>	Protective work clothing
<b>Limitation and Supervision of Exposure into the Environment</b>	Avoid release to the environment

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

#### Appearance

<b>Form</b>	Liquid
<b>Colour</b>	Tan
<b>Odour</b>	Amine -like
<b>Odour Threshold</b>	Not determined
<b>pH-value</b>	Not determined
<b>Melting Point/ Melting Range</b>	Not determined
<b>Boiling Point/ Boiling Range</b>	>149°C (300°F)
<b>Flash Point</b>	>93°C (199°F)
<b>Flammability (solid, gaseous)</b>	Not applicable
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Danger of Explosion</b>	Product does not present an explosion hazard
<b>Explosion Limits</b>	
<b>Lower</b>	Not determined.
<b>Upper</b>	Not determined
<b>Oxidising Properties</b>	Not determined
<b>Vapour Pressure</b>	Not determined
<b>Density</b>	
<b>Relative Density at 20°C (68°F)</b>	0.99 g/cm <sup>3</sup> (8.262 lbs/gal)
<b>Vapour Density</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Solubility in / Miscibility with Water</b>	Slightly soluble
<b>Partition Coefficient (n-octanol/water)</b>	Not determined

#### Viscosity

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<b>Dynamic</b>	3000-6000 cPs
<b>Kinematic</b>	Not determined
<b>Other Information</b>	No relevant information available

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No relevant information available
<b>Chemical Stability</b>	Stable under normal temperatures and pressures
<b>Thermal Decomposition / Conditions to be Avoided</b>	No decomposition if used and stored according to specifications
<b>Possibility of Hazardous Reactions</b>	Exothermic polymerisation Reacts with oxidising agents Reacts with strong acids and alkali Reacts with peroxides and other radical forming substances Reacts with catalysts
<b>Conditions to Avoid</b>	Store away from oxidising agents Avoid acids Excessive heat
<b>Incompatible Materials</b>	Oxidisers, strong bases, strong acids
<b>Hazardous Decomposition Products</b>	Carbon monoxide and carbon dioxide, Nitrogen oxides (NO <sub>x</sub> ), Ammonia

### 11. TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects

<b>Acute Toxicity</b>	
<b>LD/LC50 values that are relevant for classification</b>	
<b>111-40-0 2,2'-iminodierhylamine</b>	Oral LD50 1080 mg/kg (rat), Dermal LD50 1090 mg/kg (rabbit), Inhalative LD50/4h 0.3 mg/l (rat)
<b>80-05-7 bisphenol A</b>	Oral LD50 3250 mg/kg (rat), Dermal LD50 3000 mg/kg (rabbit)
<b>100-51-6 benzyl alcohol</b>	Oral LD50 1230 mg/kg (rat), Dermal LD50 2000 mg/kg (rabbit)
<b>Primary Irritant Effect</b>	
<b>On the Skin</b>	Caustic effect on skin and mucous membranes
<b>On the Eye</b>	Strong caustic effect
<b>Sensitisation</b>	Sensitisation possible through skin contact
<b>IARC (International Agency for Research on Cancer)</b>	None of the ingredients are listed
<b>NTP (National Toxicology Programme)</b>	None of the ingredients are listed
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	None of the ingredients are listed

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<b>Germ Cell Mutagenicity</b>	Suspected of causing genetic defects
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b>	Suspected of damaging fertility or the unborn child. Route of exposure: Oral.
<b>STOT-Single Exposure</b>	May cause respiratory irritation
<b>STOT-Repeated Exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration Hazard</b>	Based on available data, the classification criteria are not met

## 12. ECOLOGICAL INFORMATION

### Toxicity

<b>Aquatic Toxicity</b>	Toxic to aquatic life with long lasting effects
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### 100-51-6 benzyl alcohol

<b>LC50</b>	460 mg/l (pimephales promelas)
<b>Persistence and Degradability</b>	No relevant information available
<b>Bioaccumulative Potential</b>	No relevant information available
<b>Mobility in Soil</b>	No relevant information available

### Additional Ecological Information

<b>General Notes</b>	Avoid release to the environment
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### Results of PBT and vPvB Assessment

<b>PBT</b>	Not applicable
<b>vPvB</b>	Not applicable
<b>Other Adverse effects</b>	No relevant information available

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

<b>Recommendation</b>	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

<b>Recommendation</b>	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 . (DIETHYLENETRIAMINE, POLYAMIDOAMINE), ENVIRONMENTALLY HAZARDOUS  
A M I N E S , L I Q U I D , C O R R O S I V E , N . O . S . (DIETHYLENETRIAMINE, POLYAMIDOAMINE), MARINE POLLUTANT

**Transport Hazard Class(es)**

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

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### 15. REGULATORY INFORMATION

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

<b>Section 302 (Extremely Hazardous Substances)</b>	None of the ingredients are listed
<b>Section 355 (Extremely Hazardous Substances)</b>	None of the ingredients are listed
<b>Section 313 (Specific Toxic Chemical Listings)</b>	4-nonylphenol, branched 80-05-7 bisphenol A
<b>TSCA (Toxic Substances Control Act)</b>	All ingredients are listed

#### Proposition 65 (California)

<b>Chemicals Known to Cause Cancer</b>	None of the ingredients are listed
<b>Chemicals Known to Cause Reproductive Toxicity For Females</b>	80-05-7 - bisphenol A
<b>Chemicals Known to Cause Reproductive Toxicity For Males</b>	None of the ingredients are listed
<b>Chemicals Known to Cause Developmental Toxicity</b>	None of the ingredients are listed

#### Carcinogenic Categories

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

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<b>Abbreviations and Acronyms</b>	<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 NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety &amp; Health Administration LDLo: Lowest Lethal Dose Observed Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 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 Muta. 2: Germ cell mutagenicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3</p>
<b>Sources</b>	<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>