1 Identification

- **Product identifier**
  - Trade name: MM-80P
  - Product code: MM-80P 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
    - 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
  - Emergency telephone number: ChemTel Inc. (800) 255-3924, +1(813) 248-0585

2 Hazard(s) identification

- **Classification of the 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.

- **Label elements**
  - GHS label elements
    - The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms:
    - GHS07

- **Signal word: Warning**

- **Hazard statements:**
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H317 May cause an allergic skin reaction.

- **Precautionary statements:**
  - P261 Avoid breathing mist, vapors, or spray.
  - P264 Wash thoroughly after handling.
  - P280 Wear protective gloves/protective clothing/eye protection.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Components:**
  - Trade Secret Polyglycidylether
    - Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1B, H317
    - 30-60%
  - Trade Secret Polyglycidylether
    - Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1B, H317
    - 20-40%

- **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; 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.

(Cont'd. on page 2)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 10/21/2016 Revision: 10/21/2016
Trade name: MM-80P

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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 ≤ 700). 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
  - 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.
- 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).
    Do not allow to dry out.
    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.

(Cont’d. of page 2)

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
  - 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 oxidizing agents.
      Do not store together with acids.
- Further information about storage conditions
  - Specific end use(s): No relevant information available.

8 Exposure controls/personal protection

- Control parameters
  - Components with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Exposure controls
  - 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:
      Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
- Protection of hands:
  - Material of gloves
    Nitrile rubber, NBR

(Cont’d. on page 4)
9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **Appearance:** Liquid
  - **Form:** Liquid
  - **Color:** Gray
  - **Odor:** Sweetish
  - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.
  - **Melting point/Melting range:** Not determined.
  - **Boiling point/Boiling range:** Not determined.
  - **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 limits**
    - **Lower:** Not determined.
    - **Upper:** Not determined.
  - **Oxidizing properties:** Not determined.
  - **Vapor pressure:** Not determined.
  - **Density:** Relative density at 20 °C (68 °F): 1.24 g/cm³ (10.348 lbs/gal)
  - **Vapor 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:** 3000-7000 cPs
    - **Kinematic:** Not determined.

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 polymerization.
  - Reacts with oxidizing agents.
  - Reacts with strong acids and alkali.
  - Reacts with peroxides and other radical forming substances.
- **Conditions to avoid**
  - Store away from oxidizing agents.
  - Avoid acids.
  - Excessive heat.
- **Incompatible materials**
  - Oxidizers, strong bases, strong acids
  - **Hazardous decomposition products**
  - Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
    - **LD/LC50 values that are relevant for classification:**
      - 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \( \leq 700 \))
        - Oral LD50 >2000 mg/kg (rat, female)
        - Dermal LD50 >2000 mg/kg (rat)
  - **Primary irritant effect:**
    - **On the skin:** Irritant to skin and mucous membranes.
    - **On the eye:** Irritating effect.
    - **Sensitization:** Sensitization possible through 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-Co (Occupational Safety & Health Administration):**
    - None of the ingredients are listed.
  - **Probable route(s) of exposure:**
    - Ingestion.
    - Inhalation.
    - Eye contact.
43.0

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.
- 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \( \leq 700 \))
  - EC50: 2.7 mg/kg (daphnia) (48hr)
  - LC50: 1.2 mg/l (Onchorhyncus mykiss) (96hr)
  - 2.4 mg/l (zebra fish) (96hr)
- 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.
- 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.

(Cont’d. on page 8)
## 43.0

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

### 15 Regulatory information

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

### 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: Agreement on 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
  - 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
  - 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

### 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)
- Safety Data Sheets, Individual Manufacturers
- SDS Prepared by: ChemTel Inc.
  - 1305 North Florida Avenue
Trade name: MM-80P

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:** MM-80P
- **Product code:** MM-80P 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:** 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
  - **Emergency telephone number:**
    ChemTel Inc.
    (800) 255-3924, +1 (813) 248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Acute Tox. 4 H302 Harmful if swallowed.
  - Acute Tox. 4 H312 Harmful in contact with skin.
  - Acute Tox. 3 H331 Toxic if inhaled.
  - Skin Corr. 1B H314 Causes severe skin burns and eye damage.
  - Eye Dam. 1 H318 Causes 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.
  - **Additional information:** H331 hazard applies to aerosolized material only.

- **Label elements**
  - **GHS label elements**
    The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms:**
    
    GHS05 GHS06 GHS07 GHS08

- **Signal word:** Danger

(Cont'd. on page 2)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 10/21/2016 Revision: 10/21/2016

Trade name: MM-80P

Hazard statements:
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.
H381 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.
H335 May cause respiratory irritation.

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.
P280 Wear protective gloves/protective clothing/eye protection.
P290 Do not eat, drink or smoke when using this product.
P270 Contaminated work clothing must not be allowed out of the workplace.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
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.
P313 If skin irritation or rash occurs: Get medical advice/attention.
P301+P330+P313 If swallowed: Rinse mouth. Do NOT induce vomiting.
P305+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P403+P233 Store in a well-ventilated area. Keep container tightly closed.
P500 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards: There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

Components:

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<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-nonylphenol, branched</td>
<td>25-50%</td>
</tr>
<tr>
<td>Repr. 2</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 2</td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
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</tr>
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<td>H330</td>
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<td>H314</td>
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<tr>
<td>H335</td>
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<tr>
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<td>5-20%</td>
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<tr>
<td>Multi. 2</td>
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<td></td>
</tr>
<tr>
<td>(Cont'd. of page 3)</td>
<td></td>
</tr>
</tbody>
</table>

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.
    - 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.
  - Causes severe skin burns and eye damage.
43.0 Toxic if inhaled.
   Suspected of damaging fertility or the unborn child. Route of exposure: Oral.
   Suspected of causing genetic defects.
   Indication of any immediate medical attention and special treatment needed:
   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
     · 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.
   · 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
     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, vapors, or spray.
   · 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 oxidizing 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:
     | Component                  | Limit Value       |
     |---------------------------|-------------------|
     | 111-40-0, 2,2'-iminodiethylamine | REL (USA) Long-term value: 4 mg/m³, 1 ppm |
     |                           | TLV (USA) Long-term value: 4.2 mg/m³, 1 ppm |
     |                           | EL (Canada) Long-term value: 1 ppm |
     |                           | EV (Canada) Long-term value: 4 mg/m³, 1 ppm |
     |                           | LMPE (Mexico) Long-term value: 1 ppm |
     | 100-51-6 benzyl alcohol    | WEEL (USA) Long-term value: 10 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.
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - Appearance:
    - Form: Liquid
    - Color: Tan
    - Odor: Amine-like
    - Odor 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 limits
  - Lower: Not determined.
  - Upper: Not determined.
- Oxidizing properties: Not determined.
- Vapor pressure: Not determined.
- Density:
  - Relative density at 20 °C (68 °F): 1.25 g/cm³ (10.431 lbs/gal)
  - Vapor density: Not determined.
  - Evaporation rate: Not determined.
- Solubility in / Miscibility with
  - Water: Slightly soluble.
  - Partition coefficient (n-octanol/water): Not determined.
- Viscosity
  - Dynamic: 3000-6000 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 polymerization.
  - Reacts with oxidizing agents.
  - Reacts with strong acids and alkali.
  - Reacts with peroxides and other radical forming substances.
  - Reacts with catalysts.
- Conditions to avoid
  - Store away from oxidizing agents.
  - Avoid acids.
  - Excessive heat.
- Incompatible materials
  - Oxidizers, 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'-iminodiethylamine
        - Oral LD50 1080 mg/kg (rat)
        - Dermal LD50 1090 mg/kg (rabbit)
        - Inhalative LC50/4h 0.3 mg/l (rat)
      - 80-05-7 bisphenol A
        - Oral LD50 3250 mg/kg (rat)
        - Dermal LD50 3000 mg/kg (rabbit)
      - 100-51-6 benzyl alcohol
        - Oral LD50 1230 mg/kg (rat)
        - Dermal LD50 2000 mg/kg (rabbit)
  - Primary irritant effect:
    - On the skin: Caustic effect on skin and mucous membranes.
    - On the eye: Strong caustic effect.
    - Sensitization: Sensitization possible through 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.
    - 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.
    - Toxic if inhaled.
    - Harmful if swallowed or in contact with skin.
  - Repeated dose toxicity: Possible risk of irreversible effects.
  - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
    - Muta. 2, Repr. 2
  - 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.

12 Ecological information

- Toxicity
  - Aquatic toxicity
    - Toxic to aquatic life with long lasting effects.
  - 100-51-6 benzyl alcohol
    - LC50 460 mg/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: Avoid release to the environment.
    - Results of PBT and vPvB assessment
      - PBT: Not applicable.
      - vPvB: Not applicable.
  - Other adverse effects: No relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    - The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
  - Uncleaned packagings
    - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA
    - UN2735
- UN proper shipping name
  - DOT, IATA
    - Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, Polyamidoamine)
    - ADR
      - AMINES, LIQUID, CORROSIVE, N.O.S. (DIETHYLENETERIAMINE, POLYAMIDOAMINE), ENVIRONMENTALLY HAZARDOUS
      - Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, Polyamidoamine), MARINE POLLUTANT

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Transport hazard class(es)

- DOT

  - Class 8 Corrosive substances
  - Label 8

- ADR

  - Class 8 (C7) Corrosive substances
  - Label 8

- IMDG

  - Class 8 Corrosive substances
  - Label 8

- IATA

  - Class 8 Corrosive substances
  - Label 8

Packing group

DOT, ADR, IMDG, IATA: II

Environmental hazards

- Marine pollutant: Product contains environmentally hazardous substances: 4-nonylphenol, branched
- Symbol (fish and tree): Yes

Special precautions for user

- Danger code (Kepler): Warning: Corrosive substances
- 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 the 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 (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

  Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

- ADR

  Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

- IMDG

  Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

- IATA

  Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.1 L each / 0.5 L 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
43.0

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:
80-05-7 bisphenol A

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, 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
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
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3