SECTION 1: Identification

1.1. Identification
Product form: Mixture
Product name: ESD-170-B
Product code: ESD-170-B
Other means of identification: ESD-170-B/1SF, ESD-170-B/HGSF, ESD-170-B/Q

1.2. Relevant identified uses of the substance or mixture and uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Protective Industrial Polymers
7875 Bliss Parkway
North Ridgeville, Ohio 44039 - USA-Ohio
T 440-327-0015
www.protectpoly.com

1.4. Emergency telephone number
Emergency number: Chemtrec: 800-427-9300 (Outside USA) 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Acute toxicity (oral) Category 4 H302
Acute toxicity (inhalation: dust, mist) Category 4 H332
Skin corrosion/irritation Category 2 H315
Serious eye damage/eye irritation Category 1 H318
Skin sensitization Category 1 H317
Specific target organ toxicity (single exposure) Category 2 H371

Full text of H statements: see section 16

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US):

Signal word (GHS-US) : Danger
Contains: Benzenemethanol; (4,4’-diaminodicyclohexyl)methane; Formaldehyde, polymer with benzenamine, hydrogenated; N-(2-Aminoethyl)-1,2-ethanediame; Paraformaldehyde; 2,2'-Bis(4-hydroxyphenol)propane

Hazard statements (GHS-US): H302+H332 - Harmful if swallowed or if inhaled
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H371 - May cause damage to organs (respiratory system) (Inhalation)

Precautionary statements (GHS-US):
P260 - Do not breathe vapors
P261 - Avoid breathing vapors
P264 - Wash hands, forearms and face thoroughly after handling
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
P280 - Wear protective clothing
P301+P312 - If swallowed: Call a doctor if symptoms persist. If you feel unwell
P302+P352 - If on skin: Wash with plenty of soap
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a doctor if symptoms persist
P312 - Call a doctor if symptoms persist. If you feel unwell
P321 - Specific treatment (see a doctor if symptoms do not go away on this label)
P330 - Rinse mouth
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash before reuse
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local regulations

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenemethanol</td>
<td>(CAS No) 100-51-6</td>
<td>15-40</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 2, H401</td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzeneamine, hydrogenated</td>
<td>(CAS No) 135108-88-2</td>
<td>15-40</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>N-(2-Aminoethyl)-1,2-ethanediamine</td>
<td>(CAS No) 111-40-0</td>
<td>&lt;20</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Dermal), H312</td>
</tr>
<tr>
<td>2,2-Bis(4-hydroxyphenol)propane</td>
<td>(CAS No) 80-05-7</td>
<td>&lt;10</td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 2, H401</td>
</tr>
<tr>
<td>(4,4’-diaminodicyclohexyl)methane</td>
<td>(CAS No) 1761-71-3</td>
<td>0-5</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 2, H371</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td>Paraformaldehyde</td>
<td>(CAS No) 30525-89-4</td>
<td>0-5</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact : Serious damage to eyes.
4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol resistant foam, water, water fog, CO2, dry chemical, dry sand, limestone powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard: No data available on direct fire hazard.
Explosion hazard: No data available on direct explosion hazard.
Reactivity: Stable under normal conditions.

5.3. Advice for firefighters

Firefighting instructions: Fire-fighter should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Contain released substance, pump into suitable containers. Dam up the liquid spill.
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Do not breathe vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store locked up. Store in a well-ventilated place. Keep cool.
Incompatible materials: No known incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Benzenemethanol (100-51-6)
Not applicable

(4,4’-diaminodicyclohexyl)methane (1761-71-3)
Not applicable

Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)
Not applicable
**ESD-170-B**

**Safety Data Sheet**

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**N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)**

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>ACGIH TWA (ppm)</th>
<th>1 ppm (Diethylene triamine; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)</th>
</tr>
</thead>
</table>

**ACGIH**

<table>
<thead>
<tr>
<th>Remark (ACGIH)</th>
<th>URT &amp; eye irr</th>
</tr>
</thead>
</table>

**Paraformaldehyde (30525-89-4)**

Not applicable

**2,2-Bis(4-hydroxyphenol)propane (80-05-7)**

Not applicable

---

**8.2. Exposure controls**

- Appropriate engineering controls: Ensure good ventilation of the work station.
- Hand protection: protective gloves.
- Eye protection: Safety glasses.
- Skin and body protection: Wear suitable protective clothing.
- Respiratory protection: Wear respiratory protection.
- Environmental exposure controls: Avoid release to the environment.

---

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

- Physical state: Liquid
- Color: amber
- Odor: Ammonia odour
- Odor threshold: No data available
- pH: Alkaline
- Melting point: No data available
- Freezing point: No data available
- Boiling point: No data available
- Flash point: >= 124 °C
- Relative evaporation rate (butyl acetate=1): No data available
- Flammability (solid, gas): No data available
- Explosion limits: No data available
- Explosive properties: No data available
- Oxidizing properties: No data available
- Vapor pressure: No data available
- Relative density: No data available
- Relative vapor density at 20 °C: No data available
- Solubility: Water: Solubility in water of component(s) of the mixture:
  - •: 4.4 g/100ml (50 °C)
  - •: 1.23 g/100ml (20 °C)
  - •: Complete
  - •: moderately soluble
  - •: 0.012 g/100ml
- Log Pow: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity: No data available
- Viscosity, kinematic: No data available
- Viscosity, dynamic: No data available

**9.2. Other information**

No additional information available

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions.
### 10.2. Chemical stability
Stable under normal conditions.

### 10.3. Possibility of hazardous reactions
No additional information available

### 10.4. Conditions to avoid
No additional information available

### 10.5. Incompatible materials
reactive metals (Al, K, Zn …), materials reactive with hydroxyl compounds, organic acids.

### 10.6. Hazardous decomposition products
No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity:
- Oral: Harmful if swallowed. Inhalation: dust, mist: Harmful if inhaled.

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 (oral)</th>
<th>LD50 (dermal)</th>
<th>ATE US (oral)</th>
<th>ATE US (dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ESD-170-B</strong></td>
<td>625 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)</td>
<td>1553 mg/kg body weight (Rat; Other; Experimental value)</td>
<td>625.000 mg/kg body weight</td>
<td>1553.000 mg/kg body weight</td>
</tr>
<tr>
<td><strong>Benzenemethanol (100-51-6)</strong></td>
<td>1620 mg/kg (Rat; Experimental value)</td>
<td>&gt; 2000 mg/kg (Rabbit; Inconclusive, insufficient data)</td>
<td>1620.000 mg/kg body weight</td>
<td>625.000 mg/kg body weight</td>
</tr>
<tr>
<td><strong>(4,4'-diaminodicyclohexyl)methane (1761-71-3)</strong></td>
<td>625 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)</td>
<td>2110 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)</td>
<td>625.000 mg/kg body weight</td>
<td>2110.000 mg/kg body weight</td>
</tr>
<tr>
<td><strong>Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)</strong></td>
<td>367 mg/kg</td>
<td>1045 mg/kg body weight (Rabbit; Experimental value; Other)</td>
<td>367.000 mg/kg body weight</td>
<td>1045.000 mg/kg body weight</td>
</tr>
<tr>
<td><strong>N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)</strong></td>
<td>1553 mg/kg body weight (Rat; Literature study)</td>
<td>1045 mg/kg body weight (Rabbit; Experimental value; Other)</td>
<td>1553.000 mg/kg body weight</td>
<td>1045.000 mg/kg body weight</td>
</tr>
<tr>
<td><strong>Paraformaldehyde (30525-89-4)</strong></td>
<td>800 mg/kg (Rat; Literature study)</td>
<td>1.07 mg/l/4h (Rat; Literature study)</td>
<td>800.000 mg/kg body weight</td>
<td>1.070 mg/l/4h</td>
</tr>
<tr>
<td><strong>2,2-Bis(4-hydroxyphenol)propane (80-05-7)</strong></td>
<td>3300 mg/kg (Rat)</td>
<td>3600 mg/kg (Rabbit)</td>
<td>3300.000 mg/kg body weight</td>
<td>3600.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

### 11.2. Skin corrosion/irritation
Causes skin irritation. pH: Alkaline
ESD-170-B
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Serious eye damage/irritation: Causes serious eye damage.
P: Alkaline

Respiratory or skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): May cause damage to organs (respiratory system) (Inhalation).
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified

Symptoms/injuries after skin contact: Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact: Serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Before neutralisation, the product may represent a danger to aquatic organisms.

<table>
<thead>
<tr>
<th>Benzenemethanol (100-51-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>460 mg/l (LC50; EPA OPP 72-1; 96 h; Pimephales promelas; Static system; Fresh water; Experimental value)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(4,4'-diaminodicyclohexy1)methane (1761-71-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 2</td>
<td>6.84 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>141.42-200, ErC50; DIN 38412-9; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>141.42-200, EbC50; DIN 38412-9; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>430 mg/l (LC50; EU Method C.1; 96 h; Poecilia reticulata; Semi-static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>64.6 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>1164 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>10 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Experimental value)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Paraformaldehyde (30525-89-4)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>60 mg/l (LC50; 96 h)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2,2-Bis(4-hydroxyphenol)propane (80-05-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>9.9 mg/l (LC50; 96 h)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>3.9 mg/l (EC50; 48 h)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>2.7 - 3.1, EC50; 96 h</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>ESD-170-B</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability: Not established.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Benzenemethanol (100-51-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability: Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.</td>
<td></td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD): 1.6 g O_2/g substance</td>
<td></td>
</tr>
<tr>
<td>Chemical oxygen demand (COD): 2.4 g O_2/g substance</td>
<td></td>
</tr>
</tbody>
</table>
### 12.3. Bioaccumulative potential

**Benzenemethanol (100-51-6)**

- Log Pow: 1-1.1 (Experimental value; Other; 20 °C)
- Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

**N-(2-Aminoethyl)-1,2-ethanediamee (111-40-0)**

- Log Pow: -1.58 (Calculated; 20 °C; -5.58; Calculated; 20 °C)
- Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

**Paraformaldehyde (30525-89-4)**

- Log Pow: -0.63 (Estimated value)
- Bioaccumulative potential: Not bioaccumulative.

**2,2-Bis(4-hydroxyphenol)propane (80-05-7)**

- Log Pow: 5.1 - 67.7 (BCF)
- Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

**ESD-170-B**

- Ecology - soil: No Data Available.

**Benzenemethanol (100-51-6)**

- Surface tension: 0.04 N/m (20 °C)

**N-(2-Aminoethyl)-1,2-ethanediamee (111-40-0)**

- Log Koc: log Koc, SRC PCKOCWIN v2.0; 103.1; Calculated value; log Koc; SRC PCKOCWIN v2.0; 2.0132; Calculated value

### 12.5. Other adverse effects

**Effect on the global warming**

No known ecological damage caused by this product.
ESD-170-B
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods: Contain and dispose of waste according to local regulations.

**SECTION 14: Transport information**

**Department of Transportation (DOT)**

In accordance with DOT

Transport document description: UN3066 Paint, 8, III

UN-No.(DOT): UN3066

Proper Shipping Name (DOT): Paint

Class (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT): 8 - Corrosive

Packing group (DOT): III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx): 173

DOT Packaging Bulk (49 CFR 173.xxx): 241

DOT Special Provisions (49 CFR 172.102): B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50°C (1.1 bar at 122°F), or 130 kPa at 55°C (1.3 bar at 131°F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 - 2.65 178.274(d)(2) Normal............. 178.275(d)(3)

TP1: The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP29: A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx): 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 60 L

DOT Vessel Stowage Location: A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other: 40 - Stow “clear of living quarters”

Other information: No supplementary information available.

**TDG**

No additional information available

**Transport by sea**

UN-No. (IMDG): -------- TO BE COMPLETED/CALCULATED --------

**Air transport**

UN-No. (IATA): -------- TO BE COMPLETED/CALCULATED --------

**SECTION 15: Regulatory information**

15.1. US Federal regulations

ESD-170-B

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Benzenemethanol (100-51-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

(4,4’-diaminodicyclohexyl)methane (1761-71-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Parafomaldehyde (30525-89-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ 1000 lb

2,2-Bis(4-hydroxyphenol)propane (80-05-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

15.2. International regulations
CANADA
No additional information available

EU-Regulations
No additional information available

National regulations
No additional information available

15.3. US State regulations

N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)
U.S. - New Jersey - Right to Know Hazardous Substance List

Parafomaldehyde (30525-89-4)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

2,2-Bis(4-hydroxyphenol)propane (80-05-7)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Disclaimer: This SDS to the best of our knowledge conforms to the requirements of OSHA 20 CFR 1910.1200 and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the SDS in the context of how the product will be handled and used in the workplace.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H302</th>
<th>Harmful if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H371</td>
<td>May cause damage to organs</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
</tbody>
</table>
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore be construed as guaranteeing any specific property of the product.