

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : 1100-A  
Product code : 1100-A  
Other means of identification : 1100-A/5,1100-A/5SF

#### 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](http://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

Skin corrosion/irritation, Category 2 H315  
Sensitisation — Skin, Category 1 H317

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Contains : (Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane); 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane  
Hazard statements (GHS-US) : H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
Precautionary statements (GHS-US) : P261 - Avoid breathing vapours  
P264 - Wash hands thoroughly after handling  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P280 - Wear protective clothing  
P302+P352 - If on skin: Wash with plenty of soap  
P321 - Specific treatment (see a doctor if symptoms do not go away. on this label)  
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 it before reuse  
P363 - Wash contaminated clothing before reuse  
P501 - Dispose of contents/container to in accordance with local regulations

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
(Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane)	(CAS No) 25068-38-6	85 - 95	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	(CAS No) 17557-23-2	5 - 15	Skin Irrit. 2, H315 Skin Sens. 1, H317

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/injuries after skin contact : Irritation. May cause an allergic skin reaction.

#### 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 fire hazard.
- Explosion hazard : No direct explosion hazard.
- Reactivity : Stable under normal conditions.

#### 5.3. Advice for firefighters

- Firefighting instructions : Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire.
- 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

##### 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 : Dam up the liquid spill. Contain released substance, pump into suitable containers.
- 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.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- |                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing vapours.   |
| 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 in a well-ventilated place. Keep cool. |
| Incompatible materials | : No known incompatible materials.             |

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### (Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane) (25068-38-6)

Not applicable

##### 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (17557-23-2)

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           | : In case of insufficient ventilation, wear suitable respiratory equipment. |
| 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   |
| Colour                                     | : clear Colourless   |
| Odour                                      | : slight Sweet odour   |
| Odour threshold                            | : No data available  |
| pH   | : No data available  |
| Melting point                              | : No data available  |
| Freezing point                             | : No data available  |
| Boiling point                              | : ≈ 260 °C   |
| Flash point                                | : ≈ 251 °C   |
| Relative evaporation rate (butylacetate=1) | : No data available  |
| Flammability (solid, gas)                  | : No data available  |
| Explosive limits                           | : No data available  |
| Explosive properties                       | : No data available  |
| Oxidising properties                       | : No data available  |
| Vapour pressure                            | : No data available  |
| Relative density                           | : No data available  |
| Relative vapour density at 20 °C           | : No data available  |
| Solubility                                 | : Water: Solubility in water of component(s) of the mixture :<br>• (Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane): mg/l (insoluble) 5.4-8.4 |
| Log Pow                                    | : No data available  |
| Auto-ignition temperature                  | : No data available  |
| Decomposition temperature                  | : No data available  |
| Viscosity                                  | : No data available  |

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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

Will not occur.

### 10.4. Conditions to avoid

No Data Available.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

irritant gases. Carbon dioxide. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified  
(Based on available data, the classification criteria are not met)

#### (Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane) (25068-38-6)

LD50 oral rat	> 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)

#### 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (17557-23-2)

LD50 oral rat	4500 mg/kg (Rat)
ATE US (oral)	4500.000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified  
(Based on available data, the classification criteria are not met)

Respiratory or skin sensitisation : May cause an allergic skin reaction.  
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified  
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified  
(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified  
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified  
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified  
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified  
(Based on available data, the classification criteria are not met)

Symptoms/injuries after skin contact : Irritation. May cause an allergic skin reaction.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

(Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane) (25068-38-6)	
LC50 fish 2	2.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss; Semi-static system; Fresh water; Experimental value)
EC50 Daphnia 2	1.1 - 2.8 mg/l (EC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)

#### 12.2. Persistence and degradability

(Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane) (25068-38-6)	
Persistence and degradability	Not readily biodegradable in water. Hydrolysis in water. Low potential for adsorption in soil.
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (17557-23-2)	
Persistence and degradability	Biodegradability in water: no data available.

#### 12.3. Bioaccumulative potential

(Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane) (25068-38-6)	
BCF other aquatic organisms 1	3 - 31 (BCF)
Log Pow	>= 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (17557-23-2)	
Bioaccumulative potential	No bioaccumulation data available.

#### 12.4. Mobility in soil

(Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane) (25068-38-6)	
Surface tension	0.0 587-0.0589, 20 °C
Log Koc	log Koc, SRC PCKOCWIN v2.0; 2.65; QSAR

#### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Contain and dispose of waste according to local regulations.  
Waste disposal recommendations : Dispose of contents/container to ..

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT  
Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

1100-A
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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**(Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane) (25068-38-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (17557-23-2)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 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

No additional information available

## SECTION 16: Other information

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-statements:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

*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 not therefore be construed as guaranteeing any specific property of the product*