# SECTION 1: Identification

## 1.1. Identification

<table>
<thead>
<tr>
<th>Substance name</th>
<th>EP1199 Clear A</th>
</tr>
</thead>
</table>

## 1.2. Recommended use and restrictions on use

<table>
<thead>
<tr>
<th>Recommended use</th>
<th>Epoxy resin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restrictions on use</td>
<td>Product for industrial use only</td>
</tr>
</tbody>
</table>

## 1.3. Supplier

ResinLab, LLC  
N109 W13300 Ellsworth Drive  
Germantown, WI 53022 - United States  
T 1-877-259-1669  
msds@resinlab.com - www.resinlab.com

## 1.4. Emergency telephone number

| Emergency number | CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International) |

# SECTION 2: Hazard(s) identification

## 2.1. Classification of the substance or mixture

**GHS US classification**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Categories</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
<td>H315 - Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
<td>H319 - Causes serious eye irritation.</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Category 1</td>
<td>H317 - May cause an allergic skin reaction.</td>
</tr>
</tbody>
</table>

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

**GHS US labelling**

<table>
<thead>
<tr>
<th>Hazard pictograms (GHS US)</th>
<th><img src="image" alt="" /></th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal word (GHS US)</td>
<td>Warning</td>
</tr>
</tbody>
</table>
| Hazard statements (GHS US) | H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation. |
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - If on skin: Wash with plenty of water/...  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation |

## 2.3. Other hazards which do not result in classification

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Mono-constituent</th>
</tr>
</thead>
</table>
### EP1199 Clear A

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP1199 Clear A (Main constituent)</td>
<td>(CAS-No.) 25068-38-6</td>
<td>100</td>
<td>Skin Irrit. 2, H315&lt;br&gt;Eye Irrit. 2, H319&lt;br&gt;Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

### 3.2 Mixtures

Not applicable

### SECTION 4: First-aid measures

#### 4.1 Description of first aid measures

**First-aid measures general**

Evacuate the danger area.

**First-aid measures after inhalation**

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

**First-aid measures after skin contact**

Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

**First-aid measures after eye contact**

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

**First-aid measures after ingestion**

Rinse mouth with water. Do not induce vomiting. Get medical advice/attention if you feel unwell.

#### 4.2 Most important symptoms and effects (acute and delayed)

**Potential adverse human health effects and symptoms**

Practically non-toxic if swallowed (LD50 oral, rat > 2000 mg/kg). Causes serious eye irritation.

**Symptoms/effects after inhalation**

ON HEATING: Coughing. Slight irritation.

**Symptoms/effects after skin contact**

Tingling/irritation of the skin.

**Symptoms/effects after eye contact**

Irritation of the eye tissue. Redness of the eye tissue. Lacrimation.

**Symptoms/effects after ingestion**

No effects known.

**Chronic symptoms**

Skin rash/irritation.

#### 4.3 Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media**

dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

**Unsuitable extinguishing media**

Do not use a heavy water stream.

#### 5.2 Specific hazards arising from the chemical

No additional information available

#### 5.3 Special protective equipment and precautions for fire-fighters

**Precautionary measures fire**

Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

**Firefighting instructions**

Cool tanks/drums with water spray/remove them into safety. Use water moderately and if possible collect or contain it.

**Protection during firefighting**

Heat/fire exposure: compressed air/oxygen apparatus.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

Protective equipment: Gloves. Face shield. Protective clothing.

Emergency procedures: Mark the danger area. Wash contaminated clothes.

**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

Prevent soil and water pollution. Prevent spreading in sewers.

#### 6.3 Methods and material for containment and cleaning up

For containment: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill.
Methods for cleaning up:
Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

Other information:
Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling:
Avoid contact with skin and eyes. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation.

Hygiene measures:
Always wash hands after handling the product. Wash contaminated clothing before reuse. Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions:
Store in a well-ventilated place. Keep cool.

Storage temperature:
25 °C

Heat and ignition sources:
KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage:
KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. amines. (strong) bases.

Storage area:
Store in a cool area. Keep out of direct sunlight. Keep container in a well-ventilated place. Keep only in the original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
<table>
<thead>
<tr>
<th>EP1199 Clear A (25068-38-6)</th>
<th>ACGIH</th>
<th>Local name</th>
<th>Epichlorohydrin</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>0.5 ppm</td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td>Remark (ACGIH)</td>
<td>TLV® Basis: URT irr; male repro. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)</td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td>Regulatory reference</td>
<td>ACGIH 2019</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Appropriate engineering controls:
Ensure good ventilation of the work station.

Environmental exposure controls:
Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:
GIVE GOOD RESISTANCE: PVA. butyl rubber. ethyl vinyl alcohol laminate. nitrile rubber. neoprene. PVC. GIVE POOR RESISTANCE: natural rubber. polyethylene

Hand protection:
Impervious gloves

Eye protection:
Wear safety glasses with side shields.

Skin and body protection:
Protective clothing

Respiratory protection:
Respiratory protection not required in normal conditions

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state:
Liquid
EP1199 Clear A
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Appearance : Colorless liquid.
Colour : Colourless
Odour : Mild epoxy odor
Odour threshold : No data available
pH : No data available
Melting point : -16 °C (EU Method A.1: Melting/freezing point)
Freezing point : No data available
Boiling point : > 260 °C
Flash point : 252 °C
Relative evaporation rate (butylacetate=1) : No data available
Flammability (solid, gas) : Not applicable.
Vapour pressure : < 0.000000001 hPa (25 °C, EU Method A.4: Vapour Pressure)
Relative vapour density at 20 °C : No data available
Relative density : 1.16 (25 °C, ASTM D4052: Density, Relative Density, and API Gravity of Liquids by Digital Density Meter)
Density : 1.16 g/cm³
Log Pow : 3 (Estimated value, 25 °C)
Auto-ignition temperature : > 300 °C
Decomposition temperature : 320 °C (EU Method A.2: Boiling point)
Viscosity, dynamic : No data available
Explosive limits : No data available
Explosive properties : Not explosive.
Oxidising properties : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Phenolic compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

<table>
<thead>
<tr>
<th>EP1199 Clear A (25068-38-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
EP1199 Clear A
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Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT-single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

Potential adverse human health effects and symptoms:
Symptoms/effects after inhalation: ON HEATING: Coughing. Slight irritation.
Symptoms/effects after skin contact: Tingling/irritation of the skin.
Symptoms/effects after eye contact: Irritation of the eye tissue. Redness of the eye tissue. Lacrimation.
Symptoms/effects after ingestion: No effects known.
Chronic symptoms: Skin rash/inflammation.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Dangerous for the environment.
Ecology - air:
Not included in the list of substances which may contribute to the greenhouse effect (IPCC).
Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014).
Photolysis in the air. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water:
Toxic to crustacea. Toxic to crustacea with long lasting effects. Toxic to fishes. Inhibition of activated sludge. Toxic to algae.

EP1199 Clear A (25068-38-6)
LC50 fish 1: 2.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1: 2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)

12.2. Persistence and degradability
EP1199 Clear A (25068-38-6)
Persistence and degradability: Not readily biodegradable in water.

12.3. Bioaccumulative potential
EP1199 Clear A (25068-38-6)
BCF other aquatic organisms 1: 31 (Estimated value, Fresh weight)
Log Pow: 3 (Estimated value, 25 °C)
Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil
EP1199 Clear A (25068-38-6)
Surface tension: 59 mN/m (20 °C, 0.09 g/l)
Log Koc: 2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil: Low potential for adsorption in soil.

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.
Product/Packaging disposal recommendations

Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Recycle/reuse. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery.

Additional information


SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Not regulated in packages less than 5L

Transportation of Dangerous Goods
Not applicable

Transport by sea
Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin ), 9, III, MARINE POLLUTANT
UN-No. (IMDG) : 3082
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Epoxy resin
Class (IMDG) : 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG) : III - substances presenting low danger
Limited quantities (IMDG) : 5 L
EmS-No. (1) : F-A
EmS-No. (2) : S-F
Marine pollutant : Yes (IMDG only)

Air transport
Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin ), 9, III
UN-No. (IATA) : 3082
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.
Epoxy resin
Class (IATA) : 9 - Miscellaneous Dangerous Goods
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

<table>
<thead>
<tr>
<th>EP1199 Clear A (25068-38-6)</th>
<th>Listed on the United States TSCA (Toxic Substances Control Act) inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA TSCA Regulatory Flag</td>
<td>XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).</td>
</tr>
<tr>
<td>CERCLA RQ</td>
<td>100 lb</td>
</tr>
<tr>
<td>RQ (Reportable quantity, section 304 of EPA's List of Lists)</td>
<td>100 lb</td>
</tr>
<tr>
<td>SARA Section 302 Threshold Planning Quantity (TPQ)</td>
<td>1000 lb</td>
</tr>
</tbody>
</table>

11/20/2019 EN (English)
15.2. International regulations

CANADA

| EP1199 Clear A (25068-38-6) | Listed on the Canadian DSL (Domestic Substances List) |

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-statements:

| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.

Hazard 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.

Personal protection

: B

B - Safety glasses, Gloves

SDS US - ResinLab

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.