1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier

Product Name: EPOPLEX LS60 WHITE

1.2 Relevant identified uses of the substance or mixture and uses advised against

No Information

1.3 Details of the supplier of the safety data sheet

Manufacturer: EPOPLEX, A DIVISION OF STONCOR GROUP, INC
1000 EAST PARK AVENUE
MAPLE SHADE, NJ 08052
+1 856 7797500 (US)

Datasheet Produced by: ehs@stonhard.com

1.4 Emergency telephone number: CHEMTREC 1-800-424-9300 (Inside US)
CHEMTREC +1 703 5273887 (Outside US)

2. Hazard Identification

2.1 Classification of the substance or mixture

- Acute Toxicity, Inhalation, category 4
- Hazardous to the aquatic environment, Chronic, category 2
- Eye Irritation, category 2
- STOT, single exposure, category 3, RTI
- Skin Irritation, category 2
- Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product

Signal Word
Warning

Named Chemicals on Label
Benzyl alcohol, Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)
HAZARD STATEMENTS

Skin Irritation, category 2  H315  Causes skin irritation.
Skin Sensitizer, category 1  H317  May cause an allergic skin reaction.
Eye Irritation, category 2  H319  Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4  H332  Harmful if inhaled.
STOT, single exposure, category 3, RTI  H335  May cause respiratory irritation.
Hazardous to the aquatic environment, Chronic, category 2  H411  Toxic to aquatic life with long lasting effects.

PRECAUTION PHRASES

P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
P273  Avoid release to the environment.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P302+352  IF ON SKIN: Wash with plenty of soap and water.
P304+340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P333+313  If skin irritation or rash occurs: Get medical advice/attention.
P391  Collect spillage.

2.3 Other hazards
No Information

Results of PBT and vPvB assessment:
The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>50 - &lt;75</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>titanium dioxide</td>
<td>10 - &lt;25</td>
</tr>
<tr>
<td>100-51-6</td>
<td>Benzyl alcohol</td>
<td>2.5 - &lt;10</td>
</tr>
<tr>
<td>7631-86-9</td>
<td>silicon dioxide (amorphous)</td>
<td>1.0 - &lt;2.5</td>
</tr>
<tr>
<td>21645-51-2</td>
<td>alumina trihydrate</td>
<td>1.0 - &lt;2.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>GHS Symbols</th>
<th>GHS Hazard Statements</th>
<th>M-Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>GHS07-GHS09</td>
<td>H315-317-319-335-411</td>
<td>0</td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>100-51-6</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>7631-86-9</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>21645-51-2</td>
<td></td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.
AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.
AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to skin. May cause sensitization by skin contact. Prolonged or repeated exposure increases the risk. Harmful to aquatic organisms.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. Fire-fighting Measures

5.1 Extinguishing Media:
Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture
No Information

5.3 Advice for firefighters
In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Contains epoxy constituents. See information supplied by the manufacturer.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. May cause long-term adverse effects in the aquatic environment.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.
PROTECTION AND HYGIENE MEASURES: Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Extremes of temperature and direct sunlight.
STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)

No specific advice for end use available.
# 8. Exposure Controls/Personal Protection

## 8.1 Control parameters

### Ingredients with Occupational Exposure Limits

(US)

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No.</th>
<th>ACGIH TWA</th>
<th>ACGIH STEL</th>
<th>ACGIH Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>25068-38-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>13463-67-7</td>
<td>10 MGM3</td>
<td>10 MGM3</td>
<td></td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>silicon dioxide (amorphous)</td>
<td>7631-86-9</td>
<td>10.0 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>alumina trihydrate</td>
<td>21645-51-2</td>
<td>10.0 mg/m3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No.</th>
<th>OSHA PEL</th>
<th>OSHA STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>25068-38-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>13463-67-7</td>
<td>15 MGM3</td>
<td></td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>silicon dioxide (amorphous)</td>
<td>7631-86-9</td>
<td>0.8 mg/m3</td>
<td></td>
</tr>
<tr>
<td>alumina trihydrate</td>
<td>21645-51-2</td>
<td>5.0 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

**FURTHER INFORMATION:** Refer to the regulatory exposure limits for the workforce enforced in each country.

## 8.2 Exposure controls

### Personal Protection

**RESPIRATORY PROTECTION:** Respirator with filter for organic vapor.

**EYE PROTECTION:** Safety glasses.

**HAND PROTECTION:** Impervious gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

# 9. Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Not determined</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>FAINT EPOXY ODOR</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>NON-AQUEOUS</td>
</tr>
<tr>
<td>Melting point / freezing point (°C)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling point/range (°C)</td>
<td>N.D. - N.D.</td>
</tr>
<tr>
<td>Flash Point, (°F / °C)</td>
<td>&gt;485F / &gt;251C</td>
</tr>
</tbody>
</table>
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Upper/lower flammability or explosive limits: N/A - N/A
Vapour Pressure: NOT DETERMINED
Vapour density: Not determined
Relative density: Not determined
Solubility in / Miscibility with water: NEGLIGIBLE
Partition coefficient: n-octanol/water: Not determined
Auto-ignition temperature (°C): Not determined
Decomposition temperature (°C): Not determined
Viscosity: N/A
Explosive properties: Not determined
Oxidising properties: Not determined

9.2 Other information
VOC Content g/l: 0
Specific Gravity (g/cm3): 1.362

10. Stability and Reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
No decomposition if stored and applied as directed. Stable. Stable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerisation does not occur.

10.4 Conditions to avoid
Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Strong oxidizing agents. Acids and bases.

10.6 Hazardous decomposition products
Thermal decomposition can lead to release of irritating gases and vapours. Alcohols. Exothermic reaction. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.
11. Toxicological Information

11.1 Information on toxicological effects

**Acute Toxicity:**

- Oral LD50: No information
- Inhalation LC50: No information

**Irritation:** No information available.

**Corrosivity:** No information available.

**Sensitization:** No information available.

**Repeated dose toxicity:** No information available.

**Carcinogenicity:** No information available.

**Mutagenicity:** No information available.

**Toxicity for reproduction:** No information available.

**STOT-single exposure:** No information available.

**STOT-repeated exposure:** No information available.

**Aspiration hazard:** No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Vapor LC50</th>
<th>Gas LC50</th>
<th>Dust/Mist LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>&gt;2000 mg/kg, rat, oral</td>
<td>&gt;2000 mg/kg, rat</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
</tr>
<tr>
<td>13463-67-7</td>
<td>titanium dioxide</td>
<td>10000 mg/kg, oral (rat)</td>
<td></td>
<td>0.000</td>
<td></td>
<td>6.82 mg/l (rat)</td>
</tr>
<tr>
<td>100-51-6</td>
<td>Benzyl alcohol</td>
<td>1620 mg/kg, rat</td>
<td>2000 mg/kg, rabbit</td>
<td>&gt;4178 mg/m3, rat</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>7631-86-9</td>
<td>silicon dioxide (amorphous)</td>
<td>3,160 mg/kg, rat</td>
<td></td>
<td>58.8 mg/l, 4hr, rat</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

**Additional Information:**

This product is classified as a "Reproductive Toxicity - Category 2" due to containing a substance classified as a reproductive toxin via ingestion / oral exposure route only. Normal product application methods by trained crew members would not present a risk of oral exposure or ingestion. This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.
12. Ecological Information

12.1 Toxicity:
- EC50 48hr (Daphnia): No information
- IC50 72hr (Algae): No information
- LC50 96hr (fish): No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Other adverse effects: No information

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>EC50 48hr</th>
<th>IC50 72hr</th>
<th>LC50 96hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>1.8 mg/l</td>
<td>No information</td>
<td>1.5-7.7 mg/L</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>titanium dioxide</td>
<td>&gt;100 mg/l (EC50, 48h, Daphnia magna OECD202)</td>
<td>No information</td>
<td>&gt;1000 mg/l</td>
</tr>
<tr>
<td>100-51-6</td>
<td>Benzyl alcohol</td>
<td>230 mg/l</td>
<td>700 mg/l</td>
<td>460 mg/l</td>
</tr>
<tr>
<td>7631-86-9</td>
<td>silicon dioxide (amorphous)</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
</tr>
<tr>
<td>21645-51-2</td>
<td>alumina trihydrate</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
</tr>
</tbody>
</table>

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

14.1 UN number UN3082
14.2 UN proper shipping name Environmentally Hazardous Substance, Liquid, n.o.s.
14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Environmental hazards Not applicable
14.6 Special precautions for user Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code Not applicable

15. Regulatory Information

15.1
Safety, health and environmental regulations/legislation for the substance or mixture:

**U.S. Federal Regulations: As follows -**

**CERCLA - Sara Hazard Category**

This product has been reviewed according to the EPA ‘Hazard Categories’ promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- Acute Toxicity (any route of exposure)
- Skin Corrosion or Irritation
- Respiratory or Skin Sensitization
- Serious eye damage or eye irritation
- Specific target organ toxicity (single or repeated exposure)

**Sara Section 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the U.S. Superfund Amendment and Reauthorization Act (SARA) of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

**Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

**U.S. Clean Air Act:**

<table>
<thead>
<tr>
<th>EPA Coating Category</th>
<th>TRAFFIC MARKING COATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA VOC Content Limit (g/l)</td>
<td>150</td>
</tr>
<tr>
<td>Product VOC Content (g/l)</td>
<td>5.0</td>
</tr>
<tr>
<td>Thinning Recommendations</td>
<td>The coating is to be applied without thinning.</td>
</tr>
<tr>
<td>Application Recommendations</td>
<td>For professional use only.</td>
</tr>
</tbody>
</table>

* As per the federal EPA definition for coating categories in 40 CFR 59.401.
** Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

**U.S. State Regulations: As follows -**

**New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No NJ Right-To-Know components exist in this product.</td>
<td></td>
</tr>
</tbody>
</table>

**Pennsylvania Right-To-Know**

The following non-hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product.

**California Proposition 65:**

WARNING: Cancer - www.P65Warnings.ca.gov

No Proposition 65 Reproductive Toxins exist in this product.

**International Regulations: As follows -**

* **Canadian DSL:**

All chemical ingredients included on inventory or exempt.
15.2 Chemical Safety Assessment:
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. Other Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

Reasons for revision

This Safety Data Sheet (SDS) has been revised to meet updated national hazard communication standards which have adopted the provisions of the UN GHS system. There have been both formatting and content changes based on the GHS classification (if applicable), Please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);

Acronym & Abbreviation Key:

CLP Classification, Labeling & Packaging Regulation
EC European Commission
EU European Union
US United States
CAS Chemical Abstract Service
EINECS European Inventory of Existing Chemical Substances
REACH Registration, Evaluation, Authorization of Chemicals Regulation
GHS Globally Harmonized System of Classification and Labeling of Chemicals
LTEL Long term exposure limit
STEL Short term exposure limit
OEL Occupational exposure limit
ppm Parts per million
mg/m3 Milligrams per cubic meter
TLV Threshold Limit Value
ACGIH American Conference of Governmental Industrial Hygienists
OSHA Occupational Safety & Health Administration
PEL Permissible Exposure Limits
VOC Volatile organic compounds
g/l Grams per liter
mg/kg Milligrams per kilogram
N/A Not applicable
LD50 Lethal dose at 50%
LC50 Lethal concentration at 50%
EC50  
Half maximal effective concentration

IC50  
Half maximal inhibitory concentration

PBT  
Persistent bioaccumulative toxic chemical

vPvB  
Very persistent and very bioaccumulative

EEC  
European Economic Community

ADR  
International Transport of Dangerous Goods by Road

RID  
International Transport of Dangerous Goods by Rail

UN  
United Nations

IMDG  
International Maritime Dangerous Goods Code

IATA  
International Air Transport Association

MARPOL  
International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978

IBC  
International Bulk Container

RTI  
Respiratory Tract Irritation

NE  
Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.