# 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1 Product identifier

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Silmer G-222 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>6972.62</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Mixture</td>
</tr>
<tr>
<td>CAS No.</td>
<td>25036-25-3 / 69669-36-9 / 67762-95-2 / 1330-20-7 / 100-41-4</td>
</tr>
</tbody>
</table>

## 1.2 Recommended use of the chemical and restrictions on use

<table>
<thead>
<tr>
<th>Identified use(s)</th>
<th>intermediate use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses advised against</td>
<td>None known</td>
</tr>
</tbody>
</table>

## 1.3 Details of the supplier of the Safety Data Sheet

- **Company Identification**
  - Siltech Corp
  - 225 Wicksteed Ave
  - Toronto, ON Canada M4H 1G5
  - Telephone: +1-416-424-4567
  - Fax: +1-416-424-3158
  - E-Mail (competent person): raj@siltech.com

- **Additional Location**
  - Siltech Corp
  - 3265 Wolfedale Road,
  - Mississauga ON Canada L5C 1V8
  - Telephone: +1-905-270-5534
  - Fax: +1-905-270-5816

## 1.4 Emergency telephone number

- **Emergency Phone No.**
  - CANUTECH - TELEPHONE: EMERGENCY USE ONLY
  - +1-613-996-6666

# 2. SECTION 2: HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

- **Flam. Liq. 3**
- **Acute Tox. 4 – Dermal**
- **Acute Tox. 4 - Inhalation**
- **Skin Irrit. 2**
- **Eye Irrit. 2**
- **Skin Sens. 1**
- **STOT RE 2 - Hearing deterioration**

## 2.2 Label elements

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Silmer G-222 A</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signal word(s)</th>
<th>WARNING</th>
</tr>
</thead>
</table>
Precautionary statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container to: Observe Local Regulations.

2.3 Other hazards

None known

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>Synonym(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Hazard pictogram(s) and Hazard statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol; 2,2'-[(1- methylthylidene)bis(4,1- phenyleneoxymethylene)] bis[oxirane]</td>
<td>Bisphenol (Epoxy Resin)</td>
<td>30 - 35</td>
<td>25036-25-3</td>
<td>682-390-8</td>
<td>GHS07 H315, H317, H319</td>
</tr>
<tr>
<td>Xylene</td>
<td>Dimethylbenzene</td>
<td>6.5 - 12</td>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>GHS02, GHS07 H226, H312, H315, H332</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>EB</td>
<td>0.4 – 5</td>
<td>100-41-4</td>
<td>202-849-4</td>
<td>GHS02, GHS08, GHS07 H225, H332, H304, H373</td>
</tr>
</tbody>
</table>

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, obtain medical attention.
**Skin Contact**
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation develops and persists, get medical attention.

**Eye Contact**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion**
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed
May cause an allergic skin reaction. Causes skin irritation. Causes severe eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed
No information available.

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**SECTION 5: FIRE-FIGHTING MEASURES**

5.1 Extinguishing Media
Suitable Extinguishing Media
In case of fire, use water spray, foam, dry powder or CO2 for extinction. Keep containers cool by spraying with water if exposed to fire.

Unsuitable Extinguishing Media
Do not use water jet.

5.2 Special hazards arising from the substance or mixture
No information available.

5.3 Advice for fire-fighters
A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

6.2 Environmental precautions
Avoid release to the environment.

6.3 Methods and material for containment and cleaning up
Caution - spillages may be slippery. Cover spills with inert absorbent material. Transfer to a container for disposal.

6.4 Reference to other sections
See Section: 7 & 8.

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**SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid ingestion. Use only with sufficient ventilation. Wash thoroughly after handling. General hygiene measures for the handling of chemicals are applicable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2 Conditions for safe storage, including any incompatibilities
Storage Temperature
Ambient

Storage Life
Stable under normal conditions.

Incompatible materials
Oxidizing agents

Industrial use

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters

8.1.1 Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xyylene</td>
<td>1330-20-7</td>
<td>100</td>
<td>435</td>
<td></td>
<td>150</td>
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<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>100</td>
<td>435</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.1.2 Biological limit value
Not established

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8.1.3 PNECs and DNELs
Not established

8.2 Exposure controls
8.2.1 Appropriate engineering controls
Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

8.2.2 Personal protection equipment
Eye/face protection
Eye protection with side protection (EN 166)

Skin protection (Hand protection/ Other)
Wear impervious gloves (EN374).
Nitrile rubber, Polyethylene, PVC
Wear suitable protective clothing.

Respiratory protection
Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved.

8.2.3 Environmental Exposure Controls
Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Appearance
Colourless to yellowish liquid.
Odour
Characteristic odour.
Odour Threshold
Not available.
pH
Not available.
Melting Point/Freezing Point
Not available.
Initial boiling point and boiling range
Not available.
Flash point (PMCC) 34°C
Evaporation rate
Not available.
Flammability (solid, gas)
Not applicable.
Upper/lower flammability or explosive limits
Not available.
Vapour pressure
Not available.
Vapour density
Not available.
Relative density / Specific Gravity (20°C)
Not available.
Solubility(ies)
Not available.
Partition coefficient: n-octanol/water
Not available.
Auto-ignition temperature
Not available.
Decomposition Temperature
Not available.
Viscosity (25°C)
Not available.
Explosive properties
Not applicable.
Oxidising properties
Not applicable.

10. 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
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials
Oxidizing agents, Acids, Alkaline

10.6 Hazardous Decomposition Product(s)
Carbon oxides may be formed.
11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
- Ingestion: Harmful if swallowed.
- Inhalation: Harmful by inhalation.
- Skin Contact: Causes skin irritation.
- Eye Contact: Causes eye irritation.

Effects and Symptoms
- skin corrosion/irritation: Causes skin irritation.
- Serious eye damage/irritation: Causes serious eye damage.
- Respiratory or skin sensitization: May cause an allergic skin reaction.
- Germ cell mutagenicity: Not classified
- Carcinogenicity: Not classified
- Reproductive toxicity: Not classified
- STOT - single exposure: Not classified
- STOT - repeated exposure: Repeated and/or prolonged contact may cause: Hearing deterioration

- Aspiration hazard: Not classified
- Delayed and chronic effects: Not available
- Calculated acute toxicity estimate (ATE): Not available

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: Not available.
12.2 Persistence and degradability: Not available.
12.3 Bioaccumulative potential: Not available.
12.4 Mobility in soil: Not available.
12.5 Results of PBT and VPVB assessment: Not available.
12.6 Other adverse effects: None known

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Do not empty into drains; dispose of this material and its container in a safe way.
13.2 Additional Information: Dispose of contents in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number: 1993
14.2 UN proper shipping name: FLAMMABLE LIQUIDS N.O.S. (Xylene Solution)
14.3 Class: 3 Packing group III

15. SECTION 15: REGULATORY INFORMATION

15.1 EU regulations
- REACH Registration No.: Polymer exempt / Not available

Candidate List of Substances of Very High Concern for Authorisation
- Possible trace amounts of: (<0.05%):
  - Octamethylcyclotetrasiloxane (CAS# 556-67-2)
  - Decamethylcyclopentasiloxane (CAS# 541-02-6)
  - Dodecamethylcyclohexasiloxane (CAS# 540-97-6)
15.2 International Inventories

<table>
<thead>
<tr>
<th>Country</th>
<th>Listed</th>
<th>Not listed</th>
<th>Polymer exempt</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States (TSCA)</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Canada (DSL/NDSL)</td>
<td></td>
<td></td>
<td>DSL✓</td>
<td></td>
</tr>
<tr>
<td>European Union (EINECS/ELINCS)</td>
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<td></td>
<td></td>
<td>✓</td>
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<td>Australia (AICS)</td>
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<tr>
<td>China (IECSO)</td>
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<td>Japan (ENCS)</td>
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<td>South Korea (KECI)</td>
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<td>Taiwan (TCSI)</td>
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<td>New Zealand (NZIoC)</td>
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<td></td>
</tr>
<tr>
<td>Philippines (PICCS)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15.3 National regulations

- **United States (TSCA)**
  - TSCA Inventory Status: All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).
- **HMIS (Hazardous Material Information System)**
  - H = 2 / F = 3 / R = 0
- **NFPA Rating**
  - H = 2 / F = 3 / R = 0

15.4 US State Regulations

15.4.1 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM

- Specific Listing(s) not required
- Possible trace amounts of:
  - Ethylene Oxide (CAS# 75-21-8) < 1 ppm

15.4.2 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER

- Ethylbenzene (CAS# 100-41-4) 0.4 – 5%
- Specific Listing(s) not required
- Possible trace amounts of:
  - Ethylene Oxide (CAS# 75-21-8) < 1 ppm
  - 1,4-Dioxane (CAS# 123-91-1) < 1 ppm

15.4.3 State Right to Know Lists

- Xylene (CAS# 1330-20-7) 6.5 – 12%
- Ethylbenzene (CAS# 100-41-4) 0.4 – 5%
- Specific Listing(s) not required
- Possible trace amounts of:
  - Ethylene Oxide (CAS# 75-21-8) < 1 ppm
  - 1,4-Dioxane (CAS# 123-91-1) < 1 ppm

16. SECTION 16: OTHER INFORMATION

Revision: **November 29, 2018**

**LEGEND**

- LTEL: Long Term Exposure Limit
- STEL: Short Term Exposure Limit
- STOT: Specific Target Organ Toxicity
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

**References:**
Hazard statement(s) and Precautionary statement(s)

H226: Flammable liquid and vapour.
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.
H373: May cause damage to organs through prolonged or repeated exposure.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
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P333+P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container to: Observe Local Regulations.

Hazard pictogram(s) and Hazard Symbol

Additional Information

Disclaimers

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