Material Safety Data Sheet

1,6-Hexanediol

Section 1: Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>1,6-Hexanediol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Codes</td>
<td>SLH1087</td>
</tr>
<tr>
<td>CAS#</td>
<td>629-11-8</td>
</tr>
<tr>
<td>RTECS</td>
<td>MO2100000</td>
</tr>
<tr>
<td>TSCA</td>
<td>TSCA 8(b) inventory: 1,6-Hexanediol</td>
</tr>
<tr>
<td>CI#</td>
<td>Not available.</td>
</tr>
<tr>
<td>Synonym</td>
<td>Hexamethylene Glycol</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>C6H14O2</td>
</tr>
</tbody>
</table>

Contact Information for Emergency: (0086) 551 5418696

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Section 2: Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS # %</th>
<th>By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1,6-)Hexanediol</td>
<td>629-11-8</td>
<td>≥ 99.0%</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients: 1,6-Hexanediol: ORAL (LD50): Acute: 3730 mg/kg [Rat].
Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:
Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data
Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Keep away from heat.

Keep away from sources of ignition.

Empty containers pose a fire risk, evaporate the residue under a fume hood.

Ground all equipment containing material.

Do not ingest. Do not breathe gas/fumes/ vapour/spray.
Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

**Storage:**
- Keep container dry.
- Keep in a cool place.
- Ground all equipment containing material.
- Keep container tightly closed.
- Keep in a cool, well-ventilated place.

Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

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### Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:**

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

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### Section 9: Physical and Chemical Properties
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**Section 10: Stability and Reactivity Data**

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Not available.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** No.
**Section 11: Toxicological Information**

**Routes of Entry:** Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 3730 mg/kg [Rat].

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:**
Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

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**Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

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**Section 13: Disposal Considerations**

**Waste Disposal:**

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**Section 14: Transport Information**

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**IMCO and UN number:** Not Applicable.

**Common goods on transportation.**

**Special Provisions for Transport:** Not applicable.
### Section 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: 1,6-Hexanediol

**Other Regulations:** Not available.

**Other Classifications:**

- WHMIS (Canada): Not controlled under WHMIS (Canada).
- DSCL (EEC): R36/38 - Irritating to eyes and skin.
- HMIS (U.S.A.):
  - Health Hazard: 2
  - Fire Hazard: 1
  - Reactivity: 0

**Personal Protection:**

- Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

### Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

- Reversion Date: June 01, 2011
- Version No.: 20110601002

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