ANTIMONY TRIBROMIDE

3.1 Personal Protective Equipment: Gloves, dustproof clothing, goggles, and, where atmospheric exposure is high, respirators should be used.

3.2 Symptoms Following Exposure: EVOLUTION: Inflammation of mucous membranes of nose and throat. SKIN: Irritation and eczematous eruption. INGESTION: Gastric intestinal upset, vomiting, diarrhea. Chronic toxicity: Dryness of throat, pain on swallowing. Occasional vomiting and persistent nausea, loss of appetite, weight loss, dermatitis, dizziness, diarrhea, and bloody stools. Causes pathologic changes in cardiac muscle of experimental animals.

3.3 Treatment of Exposure: CALL FOR MEDICAL AID. Expose skin to skin, nose, and throat. Harmful, if swallowed. Move to fresh air. INHALATION: If SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. Flush affected areas with plenty of water.

3.4 TLV-TWA: 5 mg/m³ as Sb. 3.5 TLV-STEL: Not listed.

3.6 TLV-Ceiling: Not listed.

3.7 Toxicity by Ingestion: Currently not available

3.8 Toxicity by Inhalation: Currently not available.

3.9 Chronic Toxicity: Dryness of throat, pain on swallowing. Occasional vomiting and persistent nausea, loss of appetite, weight loss, dermatitis, dizziness, diarrhea, and bloody stools. Causes pathologic changes in cardiac muscle of experimental animals.

3.10 Vapor (Gas) Irritant Characteristics: Currently not available

3.11 Liquid or Solid Characteristics: Currently not available

3.12 Odor Threshold: Currently not available

3.13IDLH Value: 50 mg/m³ as Sb

3.14 OSHA PEL-TWA: Not listed.

3.15 OSHA PEL-STEL: Not listed.

3.16 OSHA PEL-Ceiling: Not listed.

3.17 EPA AELG: Not listed

7.5 IMO Pollution Category: Currently not available

7.6 Ship Type: Currently not available

7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

8.1 49 CFR Category: Corrosive material

8.2 49 CFR Class: II

8.3 49 CFR Package Group: II

8.4 Marine Pollutant: No

8.5 NFPA Hazard Classification: Not listed

8.6 EPA Reportable Quantity: 1000

8.7 EPA Pollution Category: C

8.8 RCRA Waste Number: Not listed

8.9 EPA SWRCB Listed: Yes

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15°C and 1 atm: Solid

9.2 Molecular Weight: 361.51

9.3 Boiling Point at 1 atm: 556°F = 280°C = 363.75K

9.4 Freezing Point: 205.88°F = 96.6°C = 328.75K

9.5 Critical Temperature: 1660.1°F = 904.5°C = 1777.7K

9.6 Critical Pressure: 822.976 psia = .56 atm = 3.67 Mbar

9.7 Specific Grav.ity: 4.148 at 23°C

9.8 Liquid Surface Tension: Currently not available

9.9 Liquid Water Interfacial Tension: Currently not available

9.10 Vapor (Gas) Specific Gravity: Not pertinent

9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available

9.12 Latent Heat of Vaporization: Currently not available

9.13 Heat of Combustion: Currently not available

9.14 Heat of Decomposition: Currently not available

9.15 Heat of Solution: Not pertinent

9.16 Heat of Polymelization: Currently not available

9.17 Heat of Fusion: 9.7 cal/g

9.18 Limiting Values: Currently not available

9.19 Reid Vapor Pressure: Currently not available

NOTES

JUNE 1999
### Antimony Tribromide

#### 9.20 Saturated Liquid Density

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOT IMPORTANT</td>
</tr>
</tbody>
</table>

#### 9.21 Liquid Heat Capacity

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>British thermal unit per pound-F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOT IMPORTANT</td>
</tr>
</tbody>
</table>

#### 9.22 Liquid Thermal Conductivity

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>British thermal unit per hour-square foot-F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOT IMPORTANT</td>
</tr>
</tbody>
</table>

#### 9.23 Liquid Viscosity

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Centipoise</th>
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</thead>
<tbody>
<tr>
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<td>NOT IMPORTANT</td>
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</table>

#### 9.24 Solubility in Water

<table>
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<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per 100 pounds of water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOT IMPORTANT</td>
</tr>
</tbody>
</table>

#### 9.25 Saturated Vapor Pressure

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per square inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CURRENTLY NOT AVAILABLE</td>
</tr>
</tbody>
</table>

#### 9.26 Saturated Vapor Density

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CURRENTLY NOT AVAILABLE</td>
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</table>

#### 9.27 Ideal Gas Heat Capacity

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>British thermal unit per pound-F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CURRENTLY NOT AVAILABLE</td>
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</tbody>
</table>