NAME USED ON LABEL: TIN II TRIFLUOROMETHANESULFONATE, 95% - SNT7993
CHEMICAL NAME: TIN II TRIFLUOROMETHANESULFONATE
SYNONYMS: STANNOUS TRIFLATE
CHEMICAL FAMILY: TIN COMPOUND
FORMULA: $C_2F_6O_6S_2Sn$
HMIS CODES   HEALTH: 3  FLAMMABILITY: 1  REACTIVITY: 0

INGREDIENTS

<table>
<thead>
<tr>
<th>IDENTITY</th>
<th>CAS NO.</th>
<th>%</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIN II TRIFLUOROMETHANESULFONATE</td>
<td>62086-04-8</td>
<td>&gt;95</td>
<td>0.1 mg/m³ as tin</td>
</tr>
<tr>
<td>OTHER TIN COMPOUNDS</td>
<td>&lt;5</td>
<td></td>
<td>0.1 mg/m³ as tin</td>
</tr>
</tbody>
</table>

PHYSICAL DATA

Boiling Point: NA
Specific Gravity: >1
Vapor Density: N/A
% volatiles: <1
Molecular Weight: 416.82
Appearance & Color: Off-white solid with acrid odor.

FIRE & EXPLOSION DATA

Flash Point, TCC: >110°C (>230°F)
Autoignition Temp.: not determined
Flammability Limits: not determined

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.
Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.
Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; HMIS: Hazardous Material information System; CAS No.: Chemical Abstract Service Registration Number
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ENVIRONMENTAL INFORMATION

Spill response: Cover spill with absorbent material. Transfer to a suitable container for disposal.

Recommended Disposal: Dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation. The onset of irritation may not occur until several hours after exposure.

Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates of organotins may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea. The onset of symptoms may be delayed until several hours after exposure.

Oral Toxicity: not determined
Chronic Toxicity: There are no known chronic effects related to this compound.

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water. Note to physician: Application of corticosteroid creams has been effective in treating severe skin irritation. If blisters develop, they may require abrasion to promote healing.

INHALATION: Move exposed individual to fresh air. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable in sealed containers under inert atmosphere. Oxidizes slowly in the presence of air.
Conditions to avoid: N/A
Incompatibility (materials to avoid): Oxidizers. Direct sunlight causes slow degradation to an inorganic tin salt.
Hazardous decomposition products: Acid vapors, tin oxides.
SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.
Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor acid gas respirator.
Eye and Face Protection: Chemical worker’s goggles. Do not wear contact lenses.
Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS NOI
DOT HAZARD CLASS: NONE REQUIRED
DOT LABEL: NONE REQUIRED
DOT ID No: NONE REQUIRED

Prepared by safety and environmental affairs  ISSUE DATE SNT7993: 10/4/03
SUPERSEDES: 4/9/01

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