Material Safety Data Sheet

Date Printed: 02/JUN/2005 Date Updated: 18/MAR/2004 Version 1.1 According to 91/155/EEC Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC. 1 - Product and Company Information Product Name TRIMETHYLANTIMONY(V) DICHLORIDE, 96% Product Number 557102 Sigma-Aldrich Pty, Ltd Company Unit 2, 14 Anella Avenue Castle Hill NSW 1765 Australia Technical Phone # +61 2 9841 0555 +61 2 9841 0500 Fax +61 2 9841 0566 Emergency Phone # 2 - Composition/Information on Ingredients Product Name CAS # EC no Annex I Index Number TRIMETHYLANTIMONY DICHLORIDE 13059-67-1 235-952-8 051-003-00-9 Formula C3H9Cl2Sb Molecular Weight 237.77 AMU trimethylstibine dichloride Synonyms 3 - Hazards Identification SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Harmful by inhalation and if swallowed. Causes burns. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 4 - First Aid Measures AFTER INHALATION If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. AFTER SKIN CONTACT In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician. AFTER EYE CONTACT In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. AFTER INGESTION If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.		
SPECIAL RISKS Specific Hazard(s): Emits toxic fumes under fire conditions.		
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.		
6 - Accidental Release Measures		
PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.		
PROCEDURE(S) OF PERSONAL PRECAUTION(S) Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.		
METHODS FOR CLEANING UP Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.		
7 - Handling and Storage		
HANDLING Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.		
STORAGE Conditions of Storage: Keep tightly closed.		
8 - Exposure Controls / Personal Protection		
ENGINEERING CONTROLS Safety shower and eye bath. Use only in a chemical fume hood.		
GENERAL HYGIENE MEASURES Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.		
PERSONAL PROTECTIVE EQUIPMENT Respiratory Protection: Government approved respirator. Hand Protection: Compatible chemical-resistant gloves. Eye Protection: Chemical safety goggles.		
9 - Physical and Chemical Properties		
Appearance	Physical State: Sol Color: White Almost Form: Powder	
Property	Value	At Temperature or Pressure
pH BP/BP Range MP/MP Range Flash Point	N/A N/A 222 °C N/A	

10 - Stability and Reactivity

STABILITY

Stable: Stable. Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Antimony/antimony oxides, Hydrogen chloride gas.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes burns. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: Causes burns. Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled. Harmful if inhaled. Ingestion: Harmful if swallowed.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

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RID/ADR
   UN#: 3261
   Class: 8
   PG: II
   Proper Shipping Name: Corrosive solid, acidic,
   organic, n.o.s.
IMDG
   UN#: 3261
   Class: 8
   PG: II
   Proper Shipping Name: CORROSIVE SOLID, ACIDIC,
   ORGANIC, N.O.S.
   Marine Pollutant: No
   Severe Marine Pollutant: No
   Technical Name: Required
IATA
   UN#: 3261
   Class: 8
   PG: II
   Proper Shipping Name: Corrosive solid, acidic,
   organic, n.o.s.
   Inhalation Packing Group I: No
   Technical Name: Required
15 - Regulatory Information
CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
   ANNEX I INDEX NUMBER: 051-003-00-9
   INDICATION OF DANGER: C N
     Corrosive. Dangerous for the environment.
   R-PHRASES: 20/22 34 51/53
     Harmful by inhalation and if swallowed. Causes burns. Toxic to
     aquatic organisms, may cause long-term adverse effects in the
     aquatic environment.
   S-PHRASES: 22 26 36/37/39 45 61
     Do not breathe dust. In case of contact with eyes, rinse
     immediately with plenty of water and seek medical advice. Wear
     suitable protective clothing, gloves, and eye/face protection.
     In case of accident or if you feel unwell, seek medical advice
     immediately (show the label where possible). Avoid release to
     the environment. Refer to special instructions/safety data
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16 - Other Information

sheets.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc.,

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