

Material Safety Data Sheet

SECTION I CHEMICAL and COMPANY IDENTIFICATION

PRODUCT: *Antimony Oxide*
CHEMICAL NAME: *Antimony Trioxide*
COMMON/GENERIC NAME: Antimony Oxide
CHEMICAL FAMILY: Inorganic/Metallic Oxide Sb₂O₃
PRODUCER: Chinese Twinkling Star
DISTRIBUTOR: H B Chemical Co. - Customer Service 330-920-8023
EMERGENCY NUMBERS: CHEMTREC 800-424-9300; CANUTEC(Canada) 613-996-6666

SECTION II COMPOSITION / INGREDIENT INFORMATION

	<u>OSHA PEL</u>	<u>EU TWA</u>
COMPOSITION: Antimony Trioxide, 100% C.A.S.#1309-64-4	0.5 mg/m ³ , as Sb (TWA)	0.5 mg/m ³ , as Sb

SECTION III/IV HAZARDS / FIRST AID PROCEDURES

EMERGENCY OVERVIEW: A white powder that can cause irritation to the respiratory tract. Prolonged exposure to the skin, eyes and respiratory tract may cause irritation. Ingestion is harmful and should be avoided. Not considered a fire or explosion hazard.

EYE: Can cause severe irritation. Flush with large amounts of water for 30 minutes. If irritation persists seek medical attention immediately.

SKIN: Prolonged contact may cause irritation and possibly skin eruptions, bubbles and lesions referred to as antimony measles. Wash skin thoroughly with soap and water. If irritation continues seek medical attention.

INGESTION: Seek medical attention.

INHALATION: Can irritate the nose, throat and lungs causing coughing, wheezing and/or shortness of breath. Remove to fresh air; give artificial respiration or oxygen if necessary.

TOXICITY: LD 50 Dermal (rabbit) > 2g/kg
LD 50 Oral (rat) > 34.6 g/kg

CARCINOGENICITY: Not listed by NTP, IARC or OSHA

IN ALL CASES OF EMERGENCY, CONTACT A PHYSICIAN

SECTION V FIRE AND EXPLOSION INFORMATION

FLASH POINT: Not combustible

FIRE-FIGHTING PROCEDURES: Not combustible.

HAZARDOUS COMBUSTION PRODUCTS: None, When exposed to heat emits irritating fumes

PROTECTIVE EQUIPMENT: Full eye protection and protective clothing are required for all indoor/outdoor spills.

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SECTION VI SPILLS AND ENVIRONMENTAL INFORMATION

SPILL OR LEAK PRECAUTIONS: Wear appropriate protective clothing, gloves and equipment. Transfer to secure containers and dispose of according to local and state regulations. Thought should always be given to collecting the material in such a manner that it could be recycled. Clean/scrub affected area with detergent. Major spills should also be reported to the National Response Center. Spills with potential to contaminate coastal waterways must be reported to the U.S. Coast Guard (800-424-8802)

WASTE DISPOSAL: All containers should be effectively labeled to facilitate the appropriate disposal or reclaim. Discarded bags or open fiber drums containing residual product.

SECTION VII HANDLING AND STORAGE

Store in sealed containers in cool, dry conditions. Store in well ventilated dry area. Store away from acids, alkalis and reducing agents. Avoid dust collection.

Wear gloves, long sleeve shirt and eye protection when handling. Do not eat, drink or smoke in the workplace

SECTION VIII EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION: Use only where sufficient ventilation exists to keep exposure levels of fumes and dust below recommended levels.

RESPIRATORY AND PERSONAL PROTECTION: Respirators should be selected when TWA is exceeded (up to 50 times the exposure limit). Safety glasses with side shields; gloves, boots and apron as appropriate.

FACILITIES: There should be a shower facility and eyewash in the building where this product is being stored and handled. Exercise good chemical handling practice.

SECTION IX PHYSICAL AND CHEMICAL INFORMATION

Appearance: White powder

Melts at 650°C

Vapor Pressure: 0.406 mmHg at 550C

Boiling Point: 1400C

Specific Gravity @20°C =ND

Solubility in Water: .001 g/100ml @ 25 C

Density: 5.2-5.7 g/cm³

SECTION X STABILITY AND REACTIVITY

Under normal storage conditions, this product a) is stable; b) will not polymerize or exotherm if in tightly sealed package; c) avoid, acids, bases, reducing agents, strong oxidizers.

SECTION XI TOXICOLOGICAL INFORMATION

LD50 Dermal (rabbit) > 2 g/kg

LD 50 Oral (rat) > 34.6 g/kg

Overexposure may cause irritation to eye, skin and respiratory tract. Irritation is aggravated when skin surface is moist when perspiring. Red bumps on skin may be present.

Chronic inhalation has resulted in benign pneumoconiosis. A long term inhalation study indicated commercial grade antimony oxide may cause malignant lung tumors in laboratory rats. IARC cancer review: Group 2B. DFG MAK listed animal carcinogen, suspected human carcinogen.

Corporate Office:

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SECTION XII

ECOLOGICAL INFORMATION

EC50 – 48h (Daphnia Magna) > 1000mg/l (Janssen Biotech 8/6/90)
LC 50 - 96h (Brachydanio Rerio) > 100 mg/l (Janssen Biotech 8/6/90)

SECTION XIII

DISPOSAL CONSIDERATIONS

Landfill in a permitted hazardous waste facility in accordance with all regulatory requirements is the preferred method of disposal. Empty containers can be rinsed with a suitable solvent/surfactant and steamed to remove residual product and fumes before disposal or reuse in accordance with applicable regulations. For spill clean-up procedures see Sect.VI. Avoid dusting.

SECTION XIV

TRANSPORTATION INFORMATION

DOT: Hazard Class 9 for packages greater than 1000 lbs Not regulated for containers less than 1000 lbs
CANADA TRANSPORT HAZ.GOODS: Not regulated
AIR (IATA/ICAO): N/A
EUROPEAN TRANSPORTATION: ND
US CUSTOMS: - HARMONIZED TARIFF CODE: ND
Packaging class: III

SECTION XV

REGULATORY INFORMATION

OSHA:
SARA TITLE III: - 311/312 CATEGORIES: Not listed.
“ “ - 313 Reportable ingredients: Antimony and is subject to reporting requirements of Community right to know act of 1986 and 40 CFR 372
This material contains a chemical known by the state of California to cause cancer as per Calif. Proposition 65.
RCRA Status: No
TSCA REGULATORY: All intentional ingredients are listed in the TSCA Inventory.
CANADA WHMIS HAZARD SYMBOL AND CLASS: Class D division 2 – materials causing other toxic effects
CANADA INGREDIENT DISCLOSURE LIST: ND All intentional ingredients are on the DSL.

Package and Labeling: R 40 – Possible irreversible effects
S 22 – Do not breath dust
S 36 – Wear suitable proactive clothing

SECTION XVI OTHER INFORMATION

HMIS Label: Health: 2
Fire: 0
Reactivity: 0
Protection: C

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The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other or additional considerations.

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