

MATERIAL SAFETY DATA SHEET
ANTIMONY OXIDE

Product/Material: Antimony Oxide
 Supplier: Ceramic Color & Chemicals Mfg. Co.
 Address: 13th Street & 11th Avenue, New Brighton, PA 15066
 Emergency Tel. No.: (724) 846-4000

SECTION I – Product Identification

Trade Name: Antimony Oxide
 Synonym: Antimony Trioxide
 Chemical Family: Metal Oxide
 Formula: Sb₂O₃ (CAS 1309-64-4)
 Antimony Trioxide may be reportable under SARA title III Sections 311 and 312 and is reportable under Section 313

SECTION II – Hazardous Ingredients

IDENTITY	CAS NO	%	ACGIH TLV	ACGIH STEL	OSHA PEL
Antimony Oxide	1309-64-4	99.5	0.5 mg/m ³ as Sb	NONE	0.5 mg/m ³ as Sb
Arsenic	7440-38-2	<0.3	0.01 mg/m ³ as As	NONE	0.01 mg/m ³ as As
Lead	7439-92-1	<0.25	0.15 mg/m ³ as Pb	NONE	

SECTION III – Physical Data

Boiling Point (°F): 2822
 Vapor Pressure (mm Hg): Not Applicable
 Vapor Density: Not Applicable
 Solubility in Water: Very slight
 Specific Gravity (H₂O=1): 5.67
 Percent Volatile by Weight: NA
 Evaporation Rate: NA
 Appearance and Odor: Fine white odorless powder

SECTION IV – Fire and Explosion Hazard Data

Flash Point (Method Used) Non-flammable
 Flammable Limits: LEL - Non-flammable
 UEL - Non-flammable
 Extinguishing Media: Not applicable
 Special Fire Fighting Procedures: Wear NIOSH/MSHA approved dust respirator and protective clothing in accordance with 29 CFR 1910.133 and 134
 Unusual Fire and Explosion Hazards: Not applicable

SECTION V – Health Hazard Data

Threshold Limit Values: TLA-TWA Sb203 (handling and use) expressed as Sb: 0.5 mg/m³

Effects of overexposure:

Inhalation: Can cause irritation to the respiratory tract and mucous membranes.
 Antiox is not a carcinogen (Bio/Dynamics' chronic whole-body inhalation study, '86-'89)

Eye contact: May be irritating

Skin contact: Prolonged or frequent contact with the skin can result in irritation and skin lesions.
 Irritation of the skin by antimony trioxide will be increased by perspiration or moisture.

Emergency and first aid procedures:

Inhalation: Remove to fresh air
Eye contact: Flush eyes thoroughly with water
Skin contact: Wash with soap and water
Ingestion: Drink a quart of water and induce vomiting

- 2 -

Antimony Oxide**SECTION VI - REACTIVITY DATA**

Stability: Stable
Incompatibility (Materials to avoid): None known
Hazardous polymerization: Will not occur

Conditions to avoid: None
Hazardous decomposition products: None
Conditions to avoid: None

SECTION VII - SPILL OR LEAK PROCEDURES

Packaging size: 999 lbs. or less

Packaging size: 1000 lbs. and greater

DOT Shipping name: Antimony Trioxide

DOT Shipping name: RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (Antimony trioxide) 9, UN3077,PGIII

DOT Hazard Class: N/A

DOT Hazard Class: 9

Steps to be taken in case material is release or spilled:

Vacuum or sweep all spilled material without creating dust and place in closed plastic bags for disposal.

Waste disposal method:

Dispose of material in accordance with all Federal, state and local air pollution water pollution and solid waste regulations. Burial in a EPA - approved Hazardous waste landfill is recommended.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory protection (Specify type) NIOSH/MSHA approved for toxic dust
Ventilation: Local exhaust to maintain employee exposure below OSHA permissible exposure
Mechanical (General)
Protective gloves: Neoprene or rubber. **Eye protection:** Chemical Safety glasses.
Other protective equipment: Long sleeved shirt
Antimony Trioxide is listed in the EPA-TSCA inventory, 1980.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing

When handling, wear gloves, long sleeved shirt and safety glasses.

Store in well ventilated dry area.

Other precautions: Do not store in open inadequate mistabled packaging.

Revision date: 7/02

NOTICE: The data and recommendations presented herein are based upon data which is considered to be accurate. However, CCC makes no Guarantee or warranty, either expressed or implied, of the accuracy or completeness of these data and recommendations.