

**MATERIAL SAFETY DATA SHEET**  
**ANTIMONY OXIDE**

Product/Material: Antimony Oxide  
Supplier: Ceramic Color & Chemicals Mfg. Co.  
Address: 13<sup>th</sup> Street & 11<sup>th</sup> 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:  $Sb_2O_3$  (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 <sup>3</sup> as Sb	NONE	0.5 mg/m <sup>3</sup> as Sb
Arsenic	7440-38-2	<0.3	0.01 mg/m <sup>3</sup> as As	NONE	0.01 mg/m <sup>3</sup> as As
Lead	7439-92-1	<0.25	0.15 mg/m <sup>3</sup> 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 (H<sub>2</sub>O=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/m<sup>3</sup>

**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

**Antimony Oxide**

**SECTION VI – REACTIVITY DATA**

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**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

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**SECTION VII – SPILL OR LEAK PROCEDURES**

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**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.

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**SECTION VIII – SPECIAL PROTECTION INFORMATION**

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**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.

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**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 mislabeled 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.