

## MATERIAL SAFETY DATA SHEET

DATE: March 1 2003

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\* SECTION I -- IDENTIFICATION \*  
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PRODUCT NAME: Antimony Metal SUPPLIER: Nathan Trotter & Co., Inc.  
308 Commerce Dr., PO Box 1066  
Exton, PA 19341

FORMULA: Sb

DOT Classification: ORM-E EMERGENCY PHONE 610-524-1440

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\* SECTION II -- INGREDIENTS \*  
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## SECTION 313 SUPPLIER NOTIFICATION:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

<u>MATERIAL OR COMPONENT</u>	<u>CAS NO.</u>	<u>%</u>	<u>THRESHOLD LIMIT VALUE, PERSONAL EXPOSURE LEVEL</u>
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Antimony	7440-38-0	99+	0.5 mg/M3 as Sb (1)
Arsenic *	7440-38-2	<0.4	0.01 mg/M3 (2)

\* As an impurity (1) based on OSHA table 2-1 of 1910.1000  
(2) OSHA standard 29 CFR 1910.1018

This information must be included in all MSDS's that are copied and distributed for this material.

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\* SECTION III -- PHYSICAL DATA \*  
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BOILING POINT: 1400 C MELTING POINT: 630.5 C

SPECIFIC GRAVITY (H2O=1): 6.684 VAPOR PRESSURE: N/A

VAPOR DENSITY (AIR=1): N/A SOLUBILITY IN H2O: N/A  
(% by weight)

APPEARANCE AND ODOR: silver metallic solid - odorless.

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\* SECTION IV -- FIRE & EXPLOSION DATA \*  
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FLASH POINT: Not a fire hazard. Antimony oxide is used as a flame retardant.

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\* SECTION V -- HEALTH HAZARD DATA \*  
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PRIMARY ROUTES OF ENTRY: Inhalation

EFFECTS OF OVEREXPOSURE:

Acute: Eyes - Causes moderate foreign particle irritation.  
Skin - Prolonged exposure or repeated skin contact causes skin irritation and red pimply, skin eruptions or lesions referred to as "antimony measles". Irritation is aggravated when skin surface is moist as when perspiring.  
Chronic: Chronic inhalation has resulted in benign pneumonconiosis. Long term inhalation studies indicate commercial grade antimony oxide causes malignant lung tumors in laboratory rats.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Immediately flush with plenty of water for at least 15 minutes. Call a physician.  
Skin: Wash contaminated area with plenty of water. Call a physician if irritation develops or persists.  
Inhalation: Remove to fresh air; if breathing difficult, give oxygen. Call a physician.

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\* SECTION VI -- REACTIVITY DATA \*  
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CONDITIONS CONTRIBUTING TO INSTABILITY: None expected.

INCOMPATIBILITY: None expected.

HAZARDOUS DECOMPOSITION PRODUCTS: In the presence of nascent hydrogen highly toxic stibine gas may be evolved.

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\* SECTION VII -- SPILL & LEAK PROCEDURE \*  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear approved high efficiency dust/fume respirator. If not contaminated, scoop up for reuse. If contaminated, scoop or vacuum into container for disposal. Avoid dusting.

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state, and local laws. Handle full or empty bags in a manner to avoid dusting. Empty containers should be disposed of in a manner which will not cause dusting during transportation or from the ultimate disposal site.

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\* SECTION VIII -- PROTECTIVE EQUIPMENT \*  
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VENTILATION: Local exhaust ventilation sufficient to maintain the employee exposure level as far below OSHA limit as possible.

PERSONAL PROTECTIVE EQUIPMENT:

- 1) NIOSH/MSHA approved respiratory protection as needed.
- 2) Safety glasses, chemical goggles.
- 3) Gloves; protective clothing as necessary to prevent skin contact.

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\* SECTION IX -- SPECIAL PRECAUTIONS \*  
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1. Use only with adequate ventilation.
2. Avoid breathing dusts.
3. Avoid skin and eye contact.
4. Wash thoroughly after handling.
5. Store in dry, well ventilated area.
6. Keep containers closed.
7. Change clothing if exposed to heavy dusts or spillage; clothing should be laundered before reuse.

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DATE: March 1, 2003  
MSDS NO: MSDS-ANT

CODE:  
PRODUCT: Antimony metal