



Material Safety Data Sheet Antimony AA Standard, 1000 ppm

Section 1 - Chemical Product and Company Identification

MSDS Name:

Antimony AA Standard, 1000 ppm

Catalog Numbers:

LC11420

Synonyms:

None

Company Identification:

LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300 or
(011) 703-527-3887

Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7697-37-2	Nitric acid	4
1309-64-4	Antimony trioxide	0.12

Section 3 - Hazards Identification

Emergency Overview

Appearance: *clear, colorless solution***Warning.** Corrosive. Causes eye and skin irritation or burns. May be harmful if swallowed. May cause cancer.**Target Organs:** *lungs, eyes, skin, mucous membranes*

Potential Health Effects

Eye:

May cause eye irritation or burns. May cause chemical conjunctivitis.

Skin:

May cause skin irritation or burns. Skin may turn brown-yellow. May cause antimony measles, characterized by itchy papules and pustules around sweat glands.

Ingestion:

Causes digestive tract burns with slow pulse, low blood pressure, bloody stool, shallow breathing, coma, convulsions, and possible death.



Material Safety Data Sheet Antimony AA Standard, 1000 ppm

Inhalation:

May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause lung damage. May cause severe bronchitis with spasms, coughing, and chest pain.

Chronic:

May cause cancer based on animal data. Laboratory experiments have resulted in mutagenic effects. May cause adverse reproductive effects. May cause chronic heart disease due to effects on the heart muscle. Prolonged or repeated inhalation may cause inflammation of the lungs, chronic bronchitis, blood, liver, and neurological effects.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid at once. Do NOT allow victim to rub or keep eyes closed.

Skin:

Get medical aid at once. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Reacts with most metals to form highly flammable hydrogen gas, which can form explosive mixtures with air. Avoid breathing corrosive vapors.

Extinguishing Media:

Use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

Not applicable.

Flash Point:

Not applicable.

NFPA Rating:

CAS# 7732-18-5: Health- 0, Flammability- 0, Instability- 0.

CAS# 7697-37-2: Health- 3, Flammability- 0, Instability- 0.

CAS# 1309-64-4: Health- 2, Flammability- 1, Instability- 0.

Explosion Limits:

Lower: n/a Upper: n/a



Material Safety Data Sheet Antimony AA Standard, 1000 ppm

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Large spills may be carefully neutralized with dilute alkaline solutions of soda ash or lime. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use only in a well ventilated area. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage:

Store in a cool, dry area in a tightly closed container away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations below the Permissible Exposure Limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Water	none listed	none listed	none listed
Nitric acid	2 ppm TWA 4 ppm STEL	2 ppm TWA 4 ppm STEL 25 ppm IDLH	2 ppm TWA 5 mg/m ³ TWA
Antimony trioxide	0.5 mg/m ³ TWA (listed under Antimony)	0.5 mg/m ³ TWA (listed under Antimony) 50 mg/m ³ IDLH (listed under Antimony)	0.5 mg/m ³ TWA (listed under Antimony)

OSHA Vacated PELs:

Nitric acid: 2 ppm TWA; 5 mg/m³ TWA

Personal Protective Equipment**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.



Material Safety Data Sheet Antimony AA Standard, 1000 ppm

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	Colorless
Odor:	Odorless
pH:	Acidic
Vapor Pressure:	Not available
Vapor Density:	Not available
Evaporation Rate:	Not available
Viscosity:	Not available
Boiling Point:	Not available
Freezing/Melting Point:	Not available
Decomposition Temperature:	Not available
Solubility in water:	Soluble
Specific Gravity/Density:	1.05
Molecular Formula:	Not applicable
Molecular Weight:	Not applicable

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

High temperatures.

Incompatibilities with Other Materials:

Metals, reducing agents, strong bases, flammable or combustible liquids, hydrogen sulfide, halogenated acids.

Hazardous Decomposition Products:

Nitrogen oxides, antimony, antimony oxides.

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7697-37-2: QU5775000, QU5900000.

CAS# 1309-64-4: CC5650000, CC5720000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7647-01-0:

Inhalation, rat: LC50 = 130 mg/m³/4H



Material Safety Data Sheet Antimony AA Standard, 1000 ppm

CAS# 1309-64-4:

Oral, rat: LD50 = >34600 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7697-37-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 1309-64-4:

ACGIH: A2- Suspected Human Carcinogen (production)

California: Carcinogen, initial date 10/1/90

NTP: Not listed.

IARC: Group 2B carcinogen

Epidemiology:

No information found

Teratogenicity:

No information found

Reproductive:

Adverse reproductive effects have occurred in animals.

Mutagenicity:

No information found

Neurotoxicity:

No information found

Section 12 - Ecological Information

Nitric acid will dissolve some soil material, especially carbonate-based components, neutralizing itself to some degree. Antimony trioxide will undergo slight biodegradation, but will bioconcentrate.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)

Hazard Class: 8

UN Number: UN3264

Packing Group: PGII

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7697-37-2 is listed on the TSCA Inventory.



Material Safety Data Sheet Antimony AA Standard, 1000 ppm

CAS# 1309-64-4 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 7697-37-2: final RQ = 1000 pounds (454 kg)

CAS# 1309-64-4: final RQ = 1000 pounds (454 kg)

CERCLA/SARA Section 313:

This material contains Nitric acid (CAS# 7697-37-2, 4%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

This material contains Antimony trioxide (listed as Antimony) (CAS# 1309-64-4, 0.12%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous:

CAS# 7697-37-2 is considered highly hazardous by OSHA.

US State

State Right to Know:

Nitric acid can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

Antimony trioxide can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Regulations:

WARNING: This product contains Antimony trioxide, a chemical known to the state of California to cause cancer.

European/International Regulations

Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7697-37-2 is listed on Canada's DSL List.

CAS# 1309-64-4 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7697-37-2 is listed on Canada's Ingredient Disclosure List.

CAS# 1309-64-4 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: July 14, 1998

Revision Date: August 23, 2010

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