



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Antimony (III) ethoxide**
PRODUCT NUMBER: 1117
CAS NUMBER: 10433-06-4
SYNONYM: triethoxyantimony, antimony ethanolate

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H302	Harmful if swallowed.
H226	Flammable liquid and vapor.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P242	Use non-sparking tools.
P243	Take precautionary measures against static charge.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P314 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: Causes irritation of the eyes

SKIN CONTACT: Causes irritation of the skin, dermatitis, and skin eruptions.

INHALATION: Irritating to the nose, mucous membranes, and respiratory tract.

INGESTION: Ingestion may lead to nausea, vomiting, bloody gums, laryngitis, headache, anemia, skin eruptions, liver and kidney damage.

HMIS CLASSIFICATION:

Health: 1 Flammability: 2 Reactivity: 0

NFPA RATING:

Health: 1 Fire: 2 Reactivity Hazard: 0

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $Sb(OC_2H_5)_3$

Molecular Weight: 256.94

CHEMICAL NAME	CAS#	%	ACGIH (TLV)	OSHA (PEL)
Antimony (III) ethoxide	10433-06-4	100	0.5 mg/m ³ (as Sb)	0.5 mg/m ³ (as Sb)

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: > 110° C

AUTO IGNITION TEMPERATURE: No data

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Carbon dioxide or dry powder. Do not use water.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit toxic organic fumes and antimony oxide dust. Carbon oxides and antimony oxide.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Flammable. No unusual fire or explosion hazards.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Always wear personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not allow material to be released into the environment. Do not let enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Avoid contact with water. Small spills may be absorbed into diatomaceous earth, sand, or other suitable absorbent, and swept up.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin and eyes. Keep away from all sources of ignition. Handle under dry inert gas. Moisture sensitive.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container under inert gas.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Wear chemical-resistant gloves to protect skin.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: Wear an approved dust respirator. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Colorless liquid

MOLECULAR WEIGHT: 254.9

BOILING POINT: 95° C

MELTING POINT: No data

SPECIFIC GRAVITY: 1.524

VAPOR PRESSURE: No data

SOLUBILITY IN WATER: Reacts with water

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Moisture sensitive liquid.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Contact with moisture, heat, flame, and sparks.

INCOMPATIBILITY: Oxygen, oxidizing agents, halogens, and acids.

DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, organic vapors, antimony oxide, and carbonates.

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.

MUTAGENIC EFFECTS: No data

TETRATOGENIC EFFECTS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

ACUTE TOXICITY: No further relevant information available.

PERSISTENCE AND DEGRADABILITY: No further relevant information available.

BIOACCUMULATIVE POTENTIAL: No further relevant information available.

MOBILITY IN SOIL: No further relevant information available.

GENERAL NOTES: Toxic for aquatic organisms. Do not allow product to reach ground water, water course, or sewage systems. Do not allow material to be released to the environment without proper governmental permits. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic to aquatic life. May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting, as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

SECTION 14 TRANSPORTATION DATA

UN1993

Flammable liquids, n.o.s.

Class 3

PG III

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SECTION 15 REGULATORY INFORMATION (Cont.)

SARA 313 COMPONENTS: Antimony (III) ethoxide

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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