

Antimony(III) n-butoxide		Pricing >
Linear Formula	Sb(OC ₄ H ₉) ₃	
Pubchem CID	102217	
MDL Number	MFCD00015238	
EC No.	218-456-6	
IUPAC Name	antimony(3+); butan-1-olate	
Beilstein/Reaxy No.	N/A	
SMILES	CCCC[O-].CCCC[O-].[Sb+3]	
Inchl Identifier	InChI=1S/3C4H9O.Sb/c3*1-2-3-4-5;/h3*2-4H2,1H3;/q3*-1;+3	
Inchi Key	YGBFTDQFAKDXBZ-UHFFFAOYSA-N	
Signal Word	Warning	
Hazard Statements	H302+H332	
Hazard Codes	Xn	
Precautionary Statements	P264-P270-P271-P301+P312-P304+P340-P312-P330-P501	
Flash Point	68 °C	
Risk Codes	63-10-20/22-37/38-41-48/20-51/53-65	
Safety Statements	26-36/37/39-61-62	
RTECS Number	N/A	
Transport Information	UN 3082 9/PG III	
WGK Germany	3	
GHS Pictograms	GHS07 Exclamation Point (!)	

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SAFETY DATA SHEET

Date Accessed: 05/17/2024 **Date Revised:** 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #2155-74-0

Relevant identified uses of the substance:

Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.
Hazards not otherwise classified No data available
GHS label elements, including precautionary
statements
Hazard pictograms



GHS07

Signal word Warning

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

Precautionary statements

P273 Avoid release to the environment.

WHMIS classification Not controlled

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 1

Flammability = 1

Physical Hazard = 1

Other hazards

Results of PBT and vPvB assessment

PBT: N/A vPvB: N/A

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

CAS No. / Substance Name:

2155-74-0 Antimony(III) n-butoxide

Identification number(s): EC number: 218-456-6

Index number: 051-003-00-9

SECTION 4. FIRST AID MEASURES

Description of first aid measures

If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly.

Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.

If swallowed:

Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed:

No data available

Indication of any immediate medical attention and special treatment needed:

No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture Contact with water releases flammable gases

If this product is involved in a fire, the following can be released:

Toxic metal oxide fume

Carbon monoxide and carbon dioxide

Advice for firefighters

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions: Do not allow material to

be released to the environment without official permits.

Methods and materials for containment and cleanup: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Prevention of secondary hazards: No special measures required.

Reference to other sections

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Handle under dry protective gas.

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Information about protection against explosions and

fires: No data available

Conditions for safe storage, including any

incompatibilities

Requirements to be met by storerooms and

receptacles: No special requirements.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from water/moisture.

Further information about storage conditions:

Store under dry inert gas.

This product is moisture sensitive.

Keep container tightly sealed.

Store in cool, dry conditions in well-sealed containers.

Protect from humidity and water.

Specific end use(s) No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:

Antimony and antimony compounds

mg/m3

ACGIH TLV 0.5

Austria MAK 0.5

Belgium TWA 0.5

Denmark TWA 0.5

Finland TWA 0.5

France VME 0.5

Germany MAK 0.5 (total dust)

Hungary TWA 0.5-STEL

Japan OEL 0.1; 2B Carcinogen

Korea TLV 0.5

Netherlands MAC-TGG 0.5

Norway TWA 0.5

Poland TWA 0.5; 1.5-STEL

Russia TWA 0.2; 0.5-STEL

Sweden NGV 0.5

Switzerland MAK-W 0.5

United Nations TWA 0.5

USA PEL 0.5

2155-74-0 Antimony(III) n-butoxide (100.0%)

PEL (USA) Long-term value: 0.5 mg/m³

as Sb

Additional information: No data

Exposure controls

Personal protective equipment

Follow typical protective and hygienic practices for

handling chemicals.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Mark Lands Later Const.

Wash hands before breaks and at the end of work.

Maintain an ergonomically appropriate working environment.

Breathing equipment: Use suitable respirator when

high concentrations are present.

Protection of hands:

Impervious gloves

Inspect gloves prior to use.

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

Penetration time of glove material (in minutes) No data available

Eye protection: Safety glasses

Body protection: Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: Form: Liquid Color: Colorless

Odor: No data available

Odor threshold: No data available.

pH: No data available.

Melting point/Melting range: No data available Boiling point/Boiling range: 133-135 °C (271-275 °F)

(0.4mm Hg)

Sublimation temperature / start: No data available

Flash point: > 110 °C (> 230 °F)

Flammability (solid, gas) No data available. Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: Product does not present an

explosion hazard. Explosion limits:

Lower: No data available Upper: No data available

Vapor pressure: No data available

Density at 20 °C (68 °F): 1.264 g/cm³ (10.548 lbs/gal)

Relative density No data available. Vapor density No data available. Evaporation rate No data available.

Solubility in / Miscibility with

Water: Reacts

Partition coefficient (n-octanol/water): No data

available. Viscosity:

Dynamic: No data available. Kinematic: No data available.

Other information No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions No dangerous reactions known

Conditions to avoid No data available

Incompatible materials:

Oxidizing agents

Water/moisture

Hazardous decomposition products:

Toxic metal oxide fume

Carbon monoxide and carbon dioxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Harmful if inhaled.

Harmful if swallowed.

LD/LC50 values that are relevant for classification: No

data

Skin irritation or corrosion: May cause irritation
Eye irritation or corrosion: May cause irritation
Sensitization: No sensitizing effects known.
Germ cell mutagenicity: No effects known.
Carcinogenicity: No classification data on

carcinogenic properties of this material is available

from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated

exposure: No effects known.

Specific target organ system toxicity - single

exposure: No effects known.

Aspiration hazard: No effects known.

Subacute to chronic toxicity:

Antimony compounds may cause metallic taste, gastrointestinal disturbances, vomiting, diarrhea, dizziness and systemic poisoning. Chronic exposure may cause

liver and kidney damage. Dermatitis and eczematous skin eruptions may result from skin contact. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No data available

Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available

Ecotoxical effects:

Remark: Toxic for aquatic organisms Additional ecological information:

Do not allow product to reach groundwater, water

courses, or sewage systems. Toxic for aquatic organisms

Do not allow material to be released to the environment without official 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.

Results of PBT and vPvB assessment

PBT: N/A vPvB: N/A

Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according

to official regulations.

SECTION 14. TRANSPORT INFORMATION

UN-Number

DOT, IMDG, IATA UN3082

UN proper shipping name

DOT Environmentally hazardous substances, liquid,

n.o.s. (Antimony(III) n-butoxide)

IMDG ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. (Antimony(III)

n-butoxide), MARINE POLLUTANT

IATA ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. (Antimony(III)

n-butoxide)

Transport hazard class(es)

DOT, IMDG, IATA

Class 9 Miscellaneous dangerous substances and articles.

Label 9

Class 9 (M6) Miscellaneous dangerous substances and articles

Label 9

Packing group

DOT, IMDG, IATA III

Environmental hazards:

Marine pollutant (IMDG): Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

Special marking (IATA): Symbol (fish and tree)

Special precautions for user Warning: Miscellaneous

dangerous substances and articles

EMS Number: F-A,S-F

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N/A

Transport/Additional information:

DOT

Marine Pollutant (DOT): No

Remarks: Special marking with the symbol (fish and tree)

UN "Model Regulation": UN3082, Environmentally hazardous substances, liquid, n.o.s. (Antimony(III) n-butoxide), 9, III

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

GHS label elements, including precautionary statements

Hazard pictograms

GHS07

Signal word Warning

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

Precautionary statements

P273 Avoid release to the environment.

National regulations

All components of this product are listed in the U.S.

Environmental Protection Agency Toxic Substances

Control Act Chemical substance Inventory.

All components of this product are listed on the

Canadian Non-Domestic Substances List (NDSL).

SARA Section 313 (specific toxic chemical listings)

2155-74-0 Antimony(III) n-butoxide

California Proposition 65

Prop 65 - Chemicals known to cause cancer

Substance is not listed.

Prop 65 - Developmental toxicity Substance is not listed.

Prop 65 - Developmental toxicity, female Substance is not listed.

Prop 65 - Developmental toxicity, male Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

This product contains antimony and is subject to the reporting requirements of section 313 of the

Emergency Planning and Community Right to know Act of 1986 and 40CFR372.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.

Substance is not listed.

The conditions of restrictions according to Article 67

and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.