

## SAFETY DATA SHEET

Version: v1

Revision Date: 2024-01-16

Print Date: 2024-01-23

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

Product name : Antimony(III) iodide  
Product Number : A434140  
Brand : aladdin  
CAS-No. : 7790-44-5

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

## 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

## 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Aquatic Toxicity - Category 2

Acute Toxicity, Inhalation - Category 4

Acute Toxicity, Oral - Category 4

Chronic Aquatic Toxicity - Category 2

Sensitization - Skin - Category 1

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

## ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Hazard statement(s)

|      |                                                 |
|------|-------------------------------------------------|
| H302 | Harmful if swallowed                            |
| H317 | May cause an allergic skin reaction             |
| H332 | Harmful if inhaled                              |
| H401 | Toxic to aquatic life                           |
| H411 | Toxic to aquatic life with long lasting effects |

## Precautionary statement(s)

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| P261      | Avoid breathing dust/fume/gas/mist/vapors/spray.                           |
| P264      | Wash hands [and ...] thoroughly after handling.                            |
| P270      | Do not eat, drink or smoke when using this product.                        |
| P271      | Use only outdoors or in a well-ventilated area.                            |
| P272      | Contaminated work clothing should not be allowed out of the workplace.     |
| P273      | Avoid release to the environment.                                          |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection. |
| P312      | Call a POISON CENTER or doctor/... if you feel unwell.                     |
| P321      | Specific treatment (see ... on this label).                                |
| P330      | Rinse mouth.                                                               |
| P363      | Wash contaminated clothing before reuse.                                   |
| P391      | Collect spillage.                                                          |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/...                  |
| P302+P352 | IF ON SKIN: wash with plenty of water.                                     |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P333+P313 | IF SKIN irritation or rash occurs: Get medical advice/attention.           |
| P501      | Dispose of contents/container to an approved waste disposal plant.         |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                      |
|------------------|----------------------|
| Synonyms         | : Antimony triiodide |
| Formula          | : SbI <sub>3</sub>   |
| Molecular weight | : 502.47             |
| CAS No.          | : 7790-44-5          |
| EC-NO.           | : 232-205-8          |

| Component            | Classification    | Concentration |
|----------------------|-------------------|---------------|
| Antimony(III) iodide | no data available | 98%           |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

no data available

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

dry chemical water or alcohol-resistant foam carbon dioxide

Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

antimony oxide hydroiodic acid and hydroiodic acid fumes

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Use water spray to cool unopened containers.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of

ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## 6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 6.4 Reference to other sections

For disposal see section 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### 7.2 Conditions for safe storage, including any incompatibilities

Store away from moisture. Store under inert gas. Store in a dry and well-ventilated place. Keep container tightly closed.

### 7.3 Specific end use(s)

no data available

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

## ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

#### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection,use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

#### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                                                  |
|-------------------------------------------------|------------------------------------------------------------------|
| a) Appearance                                   | no data available                                                |
| b) Odour                                        | no data available                                                |
| c) Odour Threshold                              | no data available                                                |
| d) pH                                           | no data available                                                |
| e) Melting point/freezing point                 | 168°C                                                            |
| f) Initial boiling point and boiling range      | 420°C                                                            |
| g) Flash point                                  | no data available                                                |
| h) Evaporation rate                             | no data available                                                |
| i) Flammability (solid, gas)                    | no data available                                                |
| j) Upper/lower flammability or explosive limits | no data available                                                |
| k) Vapour pressure                              | no data available                                                |
| l) Vapour density                               | no data available                                                |
| m) Relative density                             | 4.92g/mL at 25°C (lit.)                                          |
| n) Water solubility                             | acetone: slightly soluble(lit.); ethanol: slightly soluble(lit.) |
| o) Partition coefficient: n-octanol/water       | no data available                                                |
| p) Auto-ignition temperature                    | no data available                                                |
| q) Decomposition temperature                    | no data available                                                |
| r) Viscosity                                    | no data available                                                |
| s) Explosive properties N                       | no data available                                                |
| t) Oxidizing properties N                       | no data available                                                |

### 9.2 Other safety information

no data available

---

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

exposure to water

### 10.5 Incompatible materials

sodium oxides sodium acids strong bases moisture sensitive

### 10.6 Hazardous decomposition products

no data available

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

**Additional Information**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

**SECTION 12: Ecological information****12.1 Toxicity****12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

Very toxic to aquatic life with long lasting effects

**SECTION 13:****13.1 Disposal considerations****Product**

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur.

Observe all federal, state and local regulations when disposing of the substance.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information****DOT (US)**

UN number: 3260

Packing group: II

Class: 8

Proper shipping name: Corrosive solid, Reportable Quantity(RQ): no data  
acidic, inorganic, n.o.s. (Antimony(III) iodide)

available

Poison Inhalation Hazard: no data  
available

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Environmental Hazards: yes

**IMDG**

UN number: 3260

Packing group: II

EMS-No: no data available

Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Antimony(III) iodide)

**IATA**

UN number: 3260

Packing group: II

Class: 8

Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Antimony(III) iodide)

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## SECTION 16: Other information

|                         |                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------|
| <b>Prepared By</b>      | Regulatory Affairs                                                                          |
|                         | ALADDIN SCIENTIFIC CORPORATION                                                              |
|                         | Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
| <b>Creation Date</b>    | 15-Nov-2023                                                                                 |
| <b>Revision Date</b>    | 16-Jan-2024                                                                                 |
| <b>Print Date</b>       | 23-Jan-2024                                                                                 |
| <b>Revision Summary</b> | SDS sections updated v1                                                                     |

**Disclaimer**

Copyright Aladdin Co. Ltd. License granted to make unlimited paper copies for internal use only. 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. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.