

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2024-01-26  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Ytterbium standard  
Product Number : Y117337  
Brand : aladdin  
CAS-No. : 7440-64-4(Y117337)

### 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)  
Corrosive to Metals (Category 1), H290

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 2A), H319

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H290

May be corrosive to metals

H315

Causes skin irritation

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|                            |  |
|----------------------------|--|
| H319                       | Causes serious eye irritation  |
| Precautionary statement(s) |  |
| P234                       | Keep only in original container.   |
| P264                       | Wash hands [and ...] thoroughly after handling.  |
| P280                       | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P390                       | Absorb spillage to prevent material damage.  |
| P302+P352                  | IF ON SKIN: wash with plenty of water.   |
| P305+P351+P338             | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P332+P313                  | IF SKIN irritation occurs: Get medical advice/attention.   |
| P337+P313                  | IF eye irritation persists: Get medical advice/attention.  |
| P362+P364                  | Take off contaminated clothing and wash it before reuse.   |
| P406                       | Store in corrosive resistant/... container with a resistant inner liner.   |

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

|                  |  |
|------------------|--|
| Synonyms         | : Ytterbium Standard Solution; Ytterbium Powder, Ytterbium Metal |
| Formula          | : no data available  |
| Molecular weight | : no data available  |

| Component                 | Classification   | Concentration |
|---------------------------|--|---------------|
| <b>Nitric acid</b>        |  |               |
| CAS-No. : 7697-37-2       | Oxidizing liquid category 3; Metal corrosive category 1; Acute toxicity category 3; Skin corrosion/irritation category 1A; Serious eye damage/eye irritation category 1; H272, H290, H331, H314, H318 Concentration limit: >= 1% : Met. Corr. 1, H290; |               |
| EC-No. : 231-714-2        |  |               |
| <b>Ytterbium standard</b> |  |               |
| CAS-No. : 7440-64-4       |  |               |
| EC-No. :                  |  |               |

## 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

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **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

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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

Unsuitable extinguishing media

no data available

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

Nitrogen oxides Nonflammable. Surrounding fire sources may cause the release of hazardous vapors

#### **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.

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### **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### **6.2 Environmental precautions**

Do not let product enter drains.

#### **6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

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For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Specific end use(s)

no data available

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## 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 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).

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Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |   |
|---|---|
| a) Appearance                                   | form: Liquid color: Colorless Transparent |
| b) Odour  | no data available                         |
| c) Odour Threshold                              | no data available                         |
| d) pH   | no data available                         |
| e) Melting point/freezing point                 | no data available                         |
| f) Initial boiling point and boiling range      | no data available                         |
| 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                             | no data available                         |
| n) Water solubility                             | no data available                         |
| 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

## 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

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May react violently with: It is generally believed that it is easy to react with water.

## 10.5 Incompatible materials

Strong oxidizer metal

## 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

Symptoms: Mouth, throat, esophagus and digestive tract mucosal irritation.

Acute toxicity estimate Inhalation-4 h-> 40 mg/l-Vapor (calculation method)

Symptoms: Possible symptoms:, mucous membrane irritation Transdermal: No data available

Skin corrosion/irritation

The mixture can cause skin irritation.

Serious eye damage/eye irritation

The mixture can cause severe eye irritation.

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

Additional Information

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## SECTION 12: Ecological information

### 12.1 Toxicity

no data available

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**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**

no data available

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**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.

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**SECTION 14: Transport information**

DOT (US)

UN number: 3264

Packing group: III

Class: 8

Proper shipping name: NITRIC ACID

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: no

IMDG

UN number: 3264

Packing group: III

EMS-No: no data available

Proper shipping name: NITRIC ACID

IATA

UN number: 3264

Packing group: III

Class: 8

Proper shipping name: NITRIC ACID

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**SECTION 15: Regulatory information**

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

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## SECTION 16: Other information

|                         |   |
|-------------------------|---|
| <b>Prepared By</b>      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
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