

# SAFETY DATA SHEET

Version: v1

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

### 1.1 Product identifiers

Product name : Selenous acid  
Product Number : S778293  
Brand : aladdin  
CAS-No. : 7783-00-8

### 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 toxicity, oral (Class 3), H301

Acute toxicity, inhalation (Class 3), H331

Skin corrosion/irritation (Category 1), H314

Severe eye injury/eye irritation (Category 1), H318

Specific target organ systemic toxicity (repeated exposure) (Category 1), H372

Acute (short-term) aquatic hazard (Category 1), H400

Long term aquatic hazards (Category 1), H410

### 2.2 GHS Label elements, including precautionary statements

Pictogram



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| Signal word                       | Danger                                                                                                               |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Hazard statement(s)</b>        |                                                                                                                      |
| H301                              | Toxic if swallowed                                                                                                   |
| H314                              | Causes severe skin burns and eye damage                                                                              |
| H331                              | Toxic if inhaled                                                                                                     |
| H372                              | Causes damage to organs through prolonged or repeated exposure                                                       |
| H410                              | Very toxic to aquatic life with long lasting effects                                                                 |
| <b>Precautionary statement(s)</b> |                                                                                                                      |
| P260                              | Do not breathe 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.                                                                      |
| P273                              | Avoid release to the environment.                                                                                    |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection.                                           |
| P314                              | Get medical advice/attention if you feel unwell.                                                                     |
| P330                              | Rinse mouth.                                                                                                         |
| P363                              | Wash contaminated clothing before reuse.                                                                             |
| P391                              | Collect spillage.                                                                                                    |
| P301+P330+P331                    | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                   |
| P303+P361+P353                    | IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].             |
| P405                              | Store locked up.                                                                                                     |
| P403+P233                         | Store in a well-ventilated place. Keep container tightly closed.                                                     |
| P501                              | Dispose of contents/container to an approved waste disposal plant.                                                   |
| P301+P310+P330                    | IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER/doctor/.                                                 |
| P304+P340+P310                    | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. |

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

Very toxic to aquatic life with long lasting effects

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                   |
|------------------|-----------------------------------|
| Synonyms         | : no data available               |
| Formula          | : H <sub>2</sub> SeO <sub>3</sub> |
| Molecular weight | : 128.97                          |
| CAS No.          | : 7783-00-8                       |
| EC-NO.           | : no data available               |

| Component            | Classification | Concentration |
|----------------------|----------------|---------------|
| <b>Selenous acid</b> |                |               |

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| Component | Classification    | Concentration |
|-----------|-------------------|---------------|
|           | no data available | ≥98%          |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

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

#### If inhaled

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

#### In case of skin contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

#### In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.

#### If swallowed

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 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

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

#### Unsuitable extinguishing media

no data available

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

no data available

### 5.3 Advice for firefighters

wear self-contained breathing and full protective gear.

### 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

Ensure adequate ventilation. Use personal protective equipment as required.

## 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.

## 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Moisture sensitive , Store at room temperature.

### 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 EN166(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).

**Control of environmental exposure**

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

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                                 |                                                                                        |
|-------------------------------------------------|----------------------------------------------------------------------------------------|
| a) Appearance                                   | form: crystalline powder or crystals or chunks color: White to off-white to light pink |
| b) Odour                                        | no data available                                                                      |
| c) Odour Threshold                              | no data available                                                                      |
| d) pH                                           | no data available                                                                      |
| e) Melting point/freezing point                 | 70°C                                                                                   |
| 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                             | 3.004g/mL at 25°C (lit.)                                                               |
| 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

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**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**

no data available

**10.5 Incompatible materials**

no data available

**10.6 Hazardous decomposition products**

no data available

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

LD50 Oral - 100 mg/kg

LC50 Inhalation - 4 h - 0.51 mg/l - dust/mist

LD50 Intravenous - Mouse - 11 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

Species: Mouse Application Route: Intraperitoneal Remarks: Micronucleus test

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure

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**Aspiration hazard**

no data available

**Additional Information**

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**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**

no data available

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

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Contaminated packaging**

Dispose of as unused product.

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

UN number: 3283

Packing group: III

Class: 6.1

Proper shipping name: Selenium  
compound, solid, n.o.s. (Selenious acid)Reportable Quantity(RQ): no data  
availablePoison Inhalation Hazard: no data  
available

Environmental Hazards: yes

**IMDG**

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UN number: 3283

Packing group: III

EMS-No: no data available

Proper shipping name: Selenium compound, solid, n.o.s. (Selenious acid)

**IATA**

UN number: 3283

Packing group: III

Class: 6.1

Proper shipping name: Selenium compound, solid, n.o.s. (Selenious acid)

**SECTION 15: Regulatory information**

Please note that waste disposal should also meet local regulations. If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals (adopted by the State Council on December 4, 2013).

**SECTION 16: Other information****Prepared By**

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

Email: QualityAssurance@aladdinsci.com

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**Revision Summary**

SDS sections updated v1

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