


Material Safety Data Sheet	
SELENOUS ACID	VERSION : 04 DATE OF ISSUE : 01-08-2023 SUPERSEDES : 03
Product Code : 17805	Page 1 of 9

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : SELENOUS ACID
 Product code : 17805
 Identification of the product : SELENOUS ACID
 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. Details of the supplier of the safety data sheet

Company identification : MOLYCHEM
 Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade,
 Cuffe Parade, Mumbai 400 005 (INDIA)
 Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.
 Email : info@molychem.net
 Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat
 Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : T; R23/25
 R33
 N; R50-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301

Environmental hazards : Hazardous to the aquatic environment - Acute hazard -
 Category 1 - Warning (CLP : Aquatic Acute 1) H400
 Hazardous to the aquatic environment - Chronic hazard - Category 1 -
 Warning (CLP : Aquatic Chronic 1) H410

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s) :

T : Toxic
 N : Dangerous for the environment




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R Phrase(s) :

R23/25 : Toxic by inhalation and if swallowed.
R33 : Danger of cumulative effects.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s) :

S20/21 : When using, do not eat, drink or smoke.
S28 : After contact with skin, wash immediately with
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
S60 : This material and its container must be disposed of as hazardous waste.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words :

Danger

Hazard statements :

H301 : Toxic if swallowed.
H331 : Toxic if inhaled.
H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements

• **Prevention :**

P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
P273: Avoid release to the environment.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

• **Response :**

P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.
P391: Collect spillage.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

• **Storage :**


P403+P233: Store in well-ventilated place. Keep container tightly closed.
P405: Store locked up.

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• **Disposal considerations :**

P501:

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

3.1 Substances

Synonyms : Selenious acid
 Formula : H_2SeO_3
 Molecular weight : 128.97 g/mol
 CAS-No. : 7783-00-8
 EC-No. : 231-974-7

Component	Classification	Concentration
Selenious acid		
CAS-No. 7783-00-8	Acute Tox. 3; STOT RE 2;	<= 100 %
EC-No. 231-974-7	Aquatic Acute 1; Aquatic Chronic 1; H301, H331, H373, H400, H410	
	M-Factor - Aquatic Acute: 10 - Aquatic Chronic: 1	

4. First aid measures

4.1. Description of first aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed


If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In

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exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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

The most important known symptoms and effects are described in the labelling

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

No data available

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Selenium/selenium oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections

For disposal see section 13.

7. Handling and storage


7.1. Precautions for safe handling

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Advice on safe handling

Work under hood. Do not inhale substance/mixture.

Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Hygroscopic

Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties


a) Physical state	Solid
b) Color	No data available
c) Odor	No data available
d) Melting point/freezing point	Melting point/range: 70 °C
e) Initial boiling point and boiling range	No data available
f) Flammability (solid, gas)	The product is not flammable.
g) Upper/lower flammability or explosive limits	No data available
h) Flash point	No data available

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i) Autoignition temperature	No data available
j) Decomposition temperature	No data available
k) pH	No data available
l) Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m) Water solubility	No data available
n) Partition coefficient: n-octanol/water	No data available
o) Vapor pressure	No data available
p) Density	3.004 g/cm ³ at 25 °C
Relative density	No data available
q) Relative vapor density	No data available
r) Particle characteristics	No data available
s) Explosive properties	No data available
t) Oxidizing properties	None

9.2. Other information

No data available

10. Stability and reactivity

10.1. Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3. Possibility of hazardous reactions

no information available

10.4. Conditions to avoid

no information available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Inhalation: Toxic if inhaled.

Skin corrosion/irritation : Not classified


pH: 7

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Serious eye damage/irritation : Not classified
 pH: 7
 Respiratory or skin sensitisation : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 Specific target organ toxicity (single exposure) : Not classified
 Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.
 Additional information : There are potential chronic health effects to consider
 Aspiration hazard : Not classified
 Potential adverse human health effects and symptoms : Toxic if swallowed.

12. Ecological information

12.1. Toxicity

No data available

12.2. Persistence - 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods


No data available

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and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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