

1. PRODUCT & COMPANY IDENTIFICATION

Product Name : Sodium Selenite Solution, 100mg/ml
Product Cat No : CA056
CAS No : None
Manufacturer/Supplier : GenDEPOT LLC
PO Box 454
Barker, Tx 77413
Emergency Phone : 866.417.0078
Fax : 281-579-6876

2. HAZARD IDENTIFICATION

Emergency Overview

GHS Classification

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

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H331 Toxic if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects

GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H301+H331 Toxic if swallowed or if inhaled.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P402+P404 Store in a dry place. Store in a closed container.
P501 Dispose of contents/container in accordance with local/regional/national/international regul

Potential Health Effects

Inhalation : May be harmful if inhaled, Causes respiratory tract irritation
Skin : May be harmful if absorbed through skin. Cause skin irritation
Eyes : Causes eye irritation
Ingestion : May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENT

Synonyms : N/A

Component	Classification	Concentration
Sodium dodecyl sulphate		
CAS No	151-21-3	1 ~ 2%
EC No	205-788-1	
Flam. Sol. 2; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 3; H228, H302, H332, H315, H318, H335, H401, H412 Concentration limits: 10 - < 20 %: Eye Irrit. 2, H319; >= 20 %: Eye Dam. 1, H318;		

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

In case of skin contact: Wash off with soap and plenty of water.
Consult a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

5 . FIREFIGHTING MEASURES

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: no data available

Further information: Use water spray to cool unopened containers.

6 . ACCIDENTAL RELEASE MEASURES

Personal precaution: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precaution: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for contaminant and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7 . HANDLING AND STORAGE

Precaution for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Condition for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2-8 °C

8 . EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Component	Cas No	Value	Control parameters	Basis
Sodium selenite	13410-01-0	TWA	0.2 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.2 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
		TWA	0.2 mg/m ³	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
		TWA	0.2 mg/m ³	USA. NIOSH Recommended Exposure Limits
		PEL	0.2 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Personal protective equipment:

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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).

Hand 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.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

9 . PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance:

Safety data:

pH	no data available
Melting point	no data available
Freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Density	no data available
Water solubility	Easily soluble in water
Partition coefficient: n-octanol/water	no data available
Relative vapor density	no data available
Odor	odorless
Odor threshold	no data available
Evaporation rate	no data available

10 . STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available.

Condition to avoid

no data available..

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

no data available

11 . TOXICOLOGICAL INFORMATON

Acute Toxicity

no data available

Components: sodium selenite:

LD50 Oral - Rat - 1.6 mg/kg Remarks: (RTECS)

LD50 Oral - Rat - male - 7 mg/kg Remarks: (ECHA)

LD50 Inhalation - Rat - male and female - 4 h - > 0.052 - < 0.51 mg/l
- dust/mist

(OECD Test Guideline 403) Dermal: No data available

Skin corrosion/irritation

no data available

Components: sodium selenite:

Skin - In vitro study Result: Skin irritation - 1 h

(OECD Test Guideline 439)

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Components: sodium selenite:

Local lymph node assay (LLNA)

- Mouse Result: Not a skin sensitizer. (OECD Test Guideline 429)

Mutagenicity (Germ cell mutagenicity)

no data available

Components: sodium selenite:

Test Type: Ames test

Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro .

Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Carcinogenicity

no data available

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity— single exposure (GHS)

no data available

Specific target organ toxicity— repeated exposure (GHS)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation

Synergistic effects

no data available

Additional information

RTECS : not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence (Magnesium sulphate)

12 . ECOLOGICAL INFORMATION

Toxicity

no data available

Components: sodium selenite:

Toxicity to fish flow-through test

LC50 - Pimephales promelas (fathead minnow) - 2.06 mg/l - 96 h

Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates

semi-static test EC50 - Daphnia magna (Water flea) - 0.55 mg/l - 48 h

Remarks: (ECHA)

Toxicity to algae

Growth inhibition EC50 - Ankistrodesmus falcatus - 0.033 mg/l - 14 d

Remarks: (ECOTOX Database)

static test NOEC - Lemna minor (duckweed) - 0.083 mg/l - 14 h

Remarks: (ECHA)

Toxicity to bacteria static test EC50 - activated sludge - > 3,200 mg/l - 3 h

(OECD Test Guideline 209)

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Components: sodium selenite:

Pimephales promelas (fathead minnow) - 8 Weeks - 10.7 µg/l

(Sodium selenate) Bioconcentration factor (BCF): 153.8)

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effect

no data available

13 . DISPOSAL CONSIDERATIONS

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a

Contaminated packaging

Dispose of as unused product.

14 . TRANSPORT INFORMATION

DOT(US)

UN number : UN 3287
 Proper shipping name : TOXIC LIQUID N.O.S (Sodium selenite)
 Class : 6.1
 Packing Group : III
 Labels : 6.1

IMDG

UN number : UN 3287
 Proper shipping name : TOXIC LIQUID N N.O.S (Sodium selenite)
 Class : 6.1
 Packing Group : III
 Labels : 6.1
 EmS Code : F-A , S-A

IATA

UN number : UN 3287
 Proper shipping name : TOXIC LIQUID
 Class : 8
 Packing Group : III
 N.O.S (Sodium selenite)

15 . REGULATORY INFORMATION

United States

HCS Classification : Non Hazard
 TSCA 8(a) IUR exempt/Partial exemption : not determined
 United States Inventory (TSCA 8b) : not determined
 SARA 302 Components Sodium selenate CAS-No. 13410-01-0

SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Sodium selenate CAS-No. 13410-01-0

SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard

Clean Air Act Section 112(b) : not listed
 Hazardous air pollutants (HAPs)

Clean Air Act Section 602 : not listed
 Class I substances

Clean Air Act Section 602 : not listed
 Class II substances

DEA List I Chemicals : not listed
 (Precursor chemicals)

DEA List II Chemicals : not listed
 (Essential chemicals)

States Regulation

Massachusetts : The following components are listed - None
 New York : The following components are listed - None
 New Jersey : The following components are listed
 Water CAS No 7558-79-4
 Pennsylvania : The following components are listed
 Water CAS No 773-18-5

California Prop. 65 Components :
 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulation

Australia inventory (AICS): Not determined.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: Not determined.
Korea inventory: All components are listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan inventory (CSNN): Not determined.

16 . OTHER INFORMATION

This compound is sold only for research use by personnel familiar chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and no rubbing eyes with working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use is intended. And any other use may involve substantive hazards.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish or legally valid contractual relationship. GenDEPOT LLC, shall not be held liable for any damage resulting from handling of or from with above product. The burden of safe use of this material rests entirely with the user.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

Department issuing MSDS:
 GenDEPOT LLC
 Safety Department