



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Sodium selenite pentahydrate: sc-229317



The Power to Question

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium selenite pentahydrate
Product Number: sc-229317
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: Na₂SeO₃ · 5H₂O

Molecular Weight: 263.01 g/mol

| <u>CAS-No.</u> | <u>EC-No.</u> | <u>Index-No.</u> | <u>Concentration</u> |
|---|---------------|------------------|----------------------|
| Sodium selenite pentahydrate 26970-82-1 | 233-267-9 | 034-003-00-3 | - |

3. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Target Organ Effect, Highly toxic by inhalation, Highly toxic by ingestion, Skin sensitizer

Target Organs

Liver, Blood, Kidney, Eyes

HMIS Classification

Health Hazard: 4
Chronic Health Hazard: *
Flammability: 0
Physical hazards: 0

NFPA Rating

Health Hazard: 4
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

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

4. FIRST AID MEASURES

General advice

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

If inhaled

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

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

5. FIRE-FIGHTING MEASURES**Flammable properties**

Flash point not applicable
 Ignition temperature no data available

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

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

Methods for cleaning up

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

7. HANDLING AND STORAGE**Handling**

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place. Do not store near acids. Hygroscopic. Store at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

| Components | CAS-No. | Value | Control parameters | Update | Basis |
|------------------------------|------------|-------|-----------------------|------------|---|
| Sodium selenite pentahydrate | 26970-82-1 | TWA | 0.2 mg/m ³ | 1993-06-30 | US. Department of Labor - Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL) 29 CFR 1910.1000 Air Contaminants. |
| | | TWA | 0.2 mg/m ³ | 1989-03-01 | US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A |

Personal protective equipment**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (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).

Hand protection

Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------|---------------------------------|-----------------------|-------------------|
| Form | crystalline | Melting point | no data available |
| Boiling point | no data available | Flash point | not applicable |
| Ignition temperature | no data available | Lower explosion limit | no data available |
| Upper explosion limit | no data available | Water solubility | soluble |
| pH | 9 at 50 g/l at 20 °C (68 °F) | | |

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents, Strong acids

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – Sodium oxides, selenium/selenium oxides

Thermal decomposition

> 300 °C (> 572 °F)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitization

May cause allergic skin reaction.

Chronic exposure

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 a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Genotoxicity in vitro – mouse – mammary gland

DNA damage

Genotoxicity in vitro – mouse – mammary gland

DNA inhibition

Developmental Toxicity – mouse – Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental

Abnormalities: Musculoskeletal system.

Reproductive toxicity – mouse – Subcutaneous

Effects on Fertility: Abortion.

Reproductive toxicity – mouse – Subcutaneous

Effects on Newborn: Live birth index (# fetuses per litter; measured after birth).

Signs and Symptoms of Exposure

Nausea, dizziness, headache, anemia, salivation, tremors, alopecia., vomiting, dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation May be fatal if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation. May be fatal if absorbed through skin.

Eyes May cause eye irritation.

Ingestion May be fatal if swallowed.

Target Organs Liver, Blood, Kidney, Eyes,

Additional Information

RTECS: VS7420000

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

Toxicity to fish LC50 - *Cyprinodon variegatus* (sheepshead minnow) – 4.5 – 12.0 mg/l – 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 – *Daphnia magna* (Water flea) – 7.9 mg/l – 48 h

Toxicity to algae EC50 – *Pseudokirchneriella subcapitata* (green algae) – 3.2 – 10.0 mg/l – 72 h

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2630 Class: 6.1 Packing group: I

Proper shipping name: Selenites

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN-Number: 2630 Class: 6.1 Packing group: I

Proper shipping name: SELENITES

Marine pollutant: No

EMS-No: F-A, S-A

IATA

UN-Number: 2630 Class: 6.1 Packing group: I

Proper shipping name: Selenites

15. REGULATORY INFORMATION

OSHA Hazards

Target Organ Effect, Highly toxic by inhalation, Highly toxic by ingestion, Skin sensitizer

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

Sodium selenite pentahydrate

CAS-No.: 26970-82-1

SARA 313 Components

Sodium selenite pentahydrate

CAS-No.: 26970-82-1

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Sodium selenite pentahydrate

CAS-No.: 26970-82-1

Pennsylvania Right To Know Components

Sodium selenite pentahydrate

CAS-No.: 26970-82-1

New Jersey Right To Know Components

Sodium selenite pentahydrate

CAS-No.: 26970-82-1

California Prop. 65 Components

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

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

3/27/2012