

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Substance
:
CAS No : 7782-82-3
Product code : 05790
Chemical structure : NaHSeO_3

Synonyms : Sodium hydrogen selenite

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 3 H301
Acute toxicity (inhal.), Category 3 H331
Specific target organ toxicity — Repeated exposure, Category 2 H373
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

T; R23/25

N; R50/53

R33

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS06



GHS08



GHS09

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H301+H331 - Toxic if swallowed or if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P273 - Avoid release to the environment

P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician

P311 - Call a POISON CENTER or doctor/physician

P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : SODIUM BIASELENITE FOR MICROBIOLOGY

CAS No : 7782-82-3

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see ... on this label).

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

- Symptoms/injuries : May cause damage to organs. May cause damage to organs through prolonged or repeated exposure.
- Symptoms/injuries after inhalation : Toxic if inhaled.
- Symptoms/injuries after ingestion : Toxic if swallowed.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.
- Emergency procedures : Stop release.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clear up rapidly by scoop or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not get in eyes, on skin, or on clothing.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.

7.3. Specific end use(s)

No additional information available

SECTION 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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Molecular mass : 150.96 g/mol
Colour : White powder.
Odour : No data available
Odour threshold : No data available
pH : 6 - 7 at 50 g/l at 25 °C
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Solubility : No data available

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| | |
|----------------------|---------------------|
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 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: 6 - 7 at 50 g/l at 25 °C |
| Serious eye damage/irritation | : Not classified pH: 6 - 7 at 50 g/l at 25 °C |
| 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 |

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Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Toxic if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

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| | |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
|-------------------------------|---|

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 2630

UN-No. (IMDG) : 2630

UN-No.(IATA) : 2630

UN-No.(ADN) : 2630

UN-No. (RID) : 2630

14.2. UN proper shipping name

Proper Shipping Name (ADR) : SELENATES

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| | |
|---------------------------------------|---|
| Proper Shipping Name (IMDG) | : SELENATES |
| Proper Shipping Name (IATA) | : SELENITES |
| Proper Shipping Name (ADN) | : SELENATES |
| Proper Shipping Name (RID) | : SELENATES |
| Transport document description (ADR) | : UN 2630 SELENATES, 6.1, I, (C/E), ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IMDG) | : UN 2630 SELENATES, 6.1, I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | : UN 2630 SELENITES, 6.1, I, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (ADN) | : UN 2630 SELENATES, 6.1, I, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (RID) | : UN 2630 SELENATES, 6.1, I, ENVIRONMENTALLY HAZARDOUS |

14.3. Transport hazard class(es)

ADR

| | |
|----------------------------------|-------|
| Transport hazard class(es) (ADR) | : 6.1 |
| Danger labels (ADR) | : 6.1 |



IMDG

| | |
|-----------------------------------|-------|
| Transport hazard class(es) (IMDG) | : 6.1 |
| Danger labels (IMDG) | : 6.1 |



IATA

| | |
|-----------------------------------|-------|
| Transport hazard class(es) (IATA) | : 6.1 |
| Hazard labels (IATA) | : 6.1 |



ADN

| | |
|----------------------------------|-------|
| Transport hazard class(es) (ADN) | : 6.1 |
| Danger labels (ADN) | : 6.1 |



RID

| | |
|----------------------------------|-------|
| Transport hazard class(es) (RID) | : 6.1 |
| Danger labels (RID) | : 6.1 |

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14.4. Packing group

| | |
|----------------------|-----|
| Packing group (ADR) | : I |
| Packing group (IMDG) | : I |
| Packing group (IATA) | : I |
| Packing group (ADN) | : I |
| Packing group (RID) | : I |

14.5. Environmental hazards

| | |
|-------------------------------|--|
| Dangerous for the environment | : Yes |
| Marine pollutant | : Yes |
| Other information | : No supplementary information available |

14.6. Special precautions for user

- Overland transport

| | |
|---|--------------------------|
| Classification code (ADR) | : T5 |
| Special provision (ADR) | : 274 |
| Limited quantities (ADR) | : 0 |
| Excepted quantities (ADR) | : E5 |
| Packing instructions (ADR) | : P002, IBC07 |
| Mixed packing provisions (ADR) | : MP18 |
| Portable tank and bulk container instructions (ADR) | : T6 |
| Portable tank and bulk container special provisions (ADR) | : TP33 |
| Tank code (ADR) | : S10AH, L10CH |
| Tank special provisions (ADR) | : TU14, TU15, TE19, TE21 |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 1 |
| Special provisions for carriage - Packages (ADR) | : V10 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV1, CV13, CV28 |
| Special provisions for carriage - Operation (ADR) | : S9, S14 |
| Hazard identification number (Kemler No.) | : 66 |
| Orange plates | : |



| | |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : C/E |
| EAC code | : 2X |

- Transport by sea

| | |
|---------------------------------|---------|
| Special provision (IMDG) | : 274 |
| Limited quantities (IMDG) | : 0 |
| Excepted quantities (IMDG) | : E5 |
| Packing instructions (IMDG) | : P002 |
| IBC packing instructions (IMDG) | : IBC07 |
| IBC special provisions (IMDG) | : B1 |

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| | |
|--------------------------------|--------|
| Tank instructions (IMDG) | : T6 |
| Tank special provisions (IMDG) | : TP33 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-A |
| Stowage category (IMDG) | : E |

- Air transport

| | |
|--|-------------|
| PCA Excepted quantities (IATA) | : E5 |
| PCA Limited quantities (IATA) | : Forbidden |
| PCA limited quantity max net quantity (IATA) | : Forbidden |
| PCA packing instructions (IATA) | : 666 |
| PCA max net quantity (IATA) | : 5kg |
| CAO packing instructions (IATA) | : 673 |
| CAO max net quantity (IATA) | : 50kg |
| ERG code (IATA) | : 6L |

- Inland waterway transport

| | |
|-----------------------------------|------------|
| Classification code (ADN) | : T5 |
| Special provisions (ADN) | : 274, 802 |
| Limited quantities (ADN) | : 0 |
| Excepted quantities (ADN) | : E5 |
| Equipment required (ADN) | : PP, EP |
| Number of blue cones/lights (ADN) | : 2 |

- Rail transport

| | |
|---|--------------------------------|
| Classification code (RID) | : T5 |
| Special provision (RID) | : 274 |
| Limited quantities (RID) | : 0 |
| Excepted quantities (RID) | : E5 |
| Packing instructions (RID) | : P002, IBC07 |
| Mixed packing provisions (RID) | : MP18 |
| Portable tank and bulk container instructions (RID) | : T6 |
| Portable tank and bulk container special provisions (RID) | : TP33 |
| Tank codes for RID tanks (RID) | : S10AH, L10CH |
| Special provisions for RID tanks (RID) | : TU14, TU15, TU38, TE21, TE22 |
| Transport category (RID) | : 1 |
| Special provisions for carriage – Packages (RID) | : W10 |
| Special provisions for carriage – Loading and unloading (RID) | : CW13, CW28, CW31 |
| Hazard identification number (RID) | : 66 |

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

SODIUM BIASELENITE FOR MICROBIOLOGY is not on the REACH Candidate List

SODIUM BIASELENITE FOR MICROBIOLOGY is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

| | |
|---------------------------|---|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| H301 | Toxic if swallowed |
| H331 | Toxic if inhaled |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H410 | Very toxic to aquatic life with long lasting effects |
| 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 |
| N | Dangerous for the environment |
| T | Toxic |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product