

Sodium selenite pentahydrate**00163-100G**

Version 1.1

Revision Date 02/18/2022

Print Date 06/26/2023

SECTION 1. IDENTIFICATION

Product name : Sodium selenite pentahydrate

Number : 000000020657

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : crystalline

Color : colourless

Odor : odourless

Classification of the substance or mixture

Classification of the substance or mixture : Acute toxicity, Category 2, Oral
Acute toxicity, Category 2, Inhalation
Skin irritation, Category 2
Eye irritation, Category 2A
Skin sensitisation, Category 1

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GHS Label elements, including precautionary statements

Symbol(s)

:



Signal word

:

Danger

Hazard statements

:

Fatal if swallowed or if inhaled.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary statements

:

Prevention:

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear respiratory protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/ doctor.
Rinse mouth.
If skin irritation or rash occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

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plant.

Hazards not otherwise classified : Contact with acids liberates toxic gas.

Carcinogenicity

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, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : $\text{Na}_2\text{SeO}_3 \cdot 5\text{H}_2\text{O}$

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Sodium selenite pentahydrate	26970-82-1	>=90.00 - <=100.00 %

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area. Immediately take off contaminated clothing and rinse body with plenty of water. First aider needs to protect himself. Call a physician immediately.

Inhalation : If breathed in, move person into fresh air. Call a physician immediately.

Skin contact : Then wash with lots of water and soap. Call a physician immediately.

Eye contact : Protect unharmed eye. Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Call a physician immediately.

Ingestion : Immediate medical attention is required. A person suspected to have swallowed the substance who is conscious should be given water to drink. Take to a doctor immediately together with

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this card DO NOT induce vomiting unless directed to do so by a physician or poison control center.

Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray jet
Foam
Carbon dioxide (CO₂)
Dry powder

Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Toxic metal oxide fumes

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Immediately evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Keep people away from and upwind of spill/leak.
Avoid dust formation.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing.

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- Environmental precautions : Do not flush into surface water.
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE**Handling**

- Precautions for safe handling : Wear personal protective equipment.
Avoid formation of respirable particles.
Protect from contamination.
Avoid exposure - obtain special instructions before use.
Use only in well-ventilated areas.

- Advice on protection against fire and explosion : The product itself does not burn.
Normal measures for preventive fire protection.

Storage

- Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Protect from physical damage.
Store in a place accessible by authorized persons only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Do not breathe dust.
- Engineering measures : Local exhaust
- Eye protection : Safety goggles
- Hand protection : Wear nitrile rubber gloves to avoid contact with the skin.

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Gloves must be inspected prior to use.
Replace when worn.

- Skin and body protection : Wear suitable protective equipment.
Complete suit protecting against chemicals
Lab coat
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Separate rooms are required for washing, showering and changing clothes.
Keep working clothes separately.
When using, do not eat, drink or smoke.
Contaminated work clothing should not be allowed out of the workplace.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Sodium selenite pentahydrate	26970-82-1	TWA : Time weighted average	0.2 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as Se			

Sodium selenite pentahydrate	26970-82-1	REL : Recomm ended exposure limit (REL):	0.2 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Further information	:	Expressed as : as Se			

Sodium selenite pentahydrate	26970-82-1	PEL : Permissible exposure limit	0.2 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as Se			

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Sodium selenite pentahydrate	26970-82-1	TWA : Time weighted average	0.2 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as Se			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: crystalline
Color	: colourless
Odor	: odourless
Odor threshold	: Note: No data available
pH	: 9 at 50.00 g/l, 20 °C
Melting point/range	: Note: Not applicable, Decomposition
Boiling point/boiling range	: Note: Not applicable
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: negligible

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Vapor density : Note: No data available

Density : Note: No data available

Water solubility : 898 g/l at 25 °C

Note: anhydrous substance

Partition coefficient:
n-octanol/water : Note: No data available

Ignition temperature : Note: Not applicable

Auto-ignition temperature : Note: not auto-flammable

Decomposition temperature : 40 °C
Note: Loss of water of crystallization on heating.

> 320 °C

Note: Decomposes on heating., Hazardous decomposition
products formed under fire conditions.

Viscosity, dynamic : Note: Not applicable

Viscosity, kinematic : Note: Not applicable

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : 263.01 g/mol

Bulk density : Note: No data available

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Contact with acids liberates toxic gas.
Conditions to avoid	: Protect from contamination. Protect from heat/overheating. Protect from atmospheric moisture and water.
Incompatible materials	: Acids Strong oxidizing agents
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Toxic metal oxide fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 7 mg/kg Species: Rat Test substance: anhydrous substance
Acute inhalation toxicity	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Acute dermal toxicity	: Note: No data available
Skin irritation	: Result: Skin irritation Method: OECD Test Guideline 439 Test substance: anhydrous substance
Eye irritation	: Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

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Sensitisation	: Species: Mouse Result: Causes sensitisation. Method: OECD Test Guideline 429
Repeated dose toxicity	: Species: Mouse Application Route: Oral Exposure time: 90 d NOAEL (No observed adverse effect level): 0.9 mg/kg Test substance: anhydrous substance
Aspiration toxicity	: Not applicable

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	: static test LC50: 3.3 mg/l Exposure time: 96 h Species: Morone saxatilis Note: as Se
	: flow-through test NOEC: 0.021 mg/l Exposure time: 90 d Species: Oncorhynchus mykiss (rainbow trout) Note: as Se
	: flow-through test LOEC: 0.0472 mg/l Exposure time: 90 d Species: Oncorhynchus mykiss (rainbow trout) Note: as Se
Toxicity to daphnia and other aquatic invertebrates	: semi-static test LC50: 0.55 mg/l Exposure time: 48 h

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Species: *Daphnia magna* (Water flea)
Note: as Se

Toxicity to algae

- : static test
NOEC: 0.79 mg/l
Exposure time: 96 h
Species: *Chlamydomonas reinhardtii*
Note: as Se
- : static test
NOEC: 4.57 mg/l
Exposure time: 72 h
Species: *Pseudokirchneriella subcapitata* (green algae)
Method: OECD Test Guideline 201
Note: as Se
- : static test
LOEC: 8.22 mg/l
Exposure time: 72 h
Species: *Pseudokirchneriella subcapitata* (green algae)
Method: OECD Test Guideline 201
Note: as Se

**Toxicity to daphnia and other
aquatic invertebrates
(Chronic toxicity)**

- : semi-static test
NOEC: 0.1 mg/l
Exposure time: 24 d
Species: *Hyalella azteca* (Amphipod)
Note: as Se

Further information on ecology

- Additional ecological information : The methods for determining biodegradability are not applicable to inorganic substances.

SECTION 13. DISPOSAL CONSIDERATIONS

- Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

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DOT	UN/ID No.	: UN 2630
	Proper shipping name	: Selenites (Sodium selenite)
	Class	: 6.1
	Packing group	: I
	Hazard Labels	: 6.1
IATA	UN/ID No.	: UN 2630
	Description of the goods	: Selenites (Sodium selenite)
	Class	: 6.1
	Packaging group	: I
	Hazard Labels	: 6.1
	Packing instruction (cargo aircraft)	: 673
	Packing instruction (passenger aircraft)	: 666
IMDG	UN/ID No.	: UN 2630
	Description of the goods	: Selenites (SODIUM SELENITE)
	Class	: 6.1
	Packaging group	: I
	Hazard Labels	: 6.1
	EmS Number	: F-A, S-A
	Marine pollutant	: yes

SECTION 15. REGULATORY INFORMATION**Inventories**US. Toxic Substances : On TSCA Inventory
Control ActAustralia. Industrial : Not in compliance with the inventory
Chemicals Act (AIC), as
amendedCanada. Canadian : All components of this product are on the Canadian DSL
Environmental Protection
Act (CEPA). Domestic
Substances List (DSL)

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Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory
Inventory (KECI)Philippines. Inventory of : Not in compliance with the inventory
Chemicals and Chemical
Substances (PICCS)China. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances
(IECSC)New Zealand. Inventory of : Not in compliance with the inventory
Chemicals (NZIoC), as
published by ERMA New
Zealand**National regulatory information**US. EPA CERCLA : The following component(s) of this product is/are subject to
Hazardous Substances (40 : release reporting under 40 CFR 302 when release exceeds the
CFR 302) Reportable Quantity (RQ):Reportable quantity: 100 lbs
: Sodium selenite pentahydrate 26970-82-1**SARA 302 Components** : The following components are subject to reporting levels
established by SARA Title III, Section 302:
: Sodium selenite pentahydrate 26970-82-1**SARA 313 Components** : The following components are subject to reporting levels
established by SARA Title III, Section 313:
: Sodium selenite pentahydrate 26970-82-1**SARA 311/312 Hazards** : Acute Health Hazard**CERCLA Reportable** : 100 lbs
Quantity

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

Massachusetts RTK : Sodium selenite pentahydrate 26970-82-1

New Jersey RTK : Sodium selenite pentahydrate 26970-82-1

Pennsylvania RTK : Sodium selenite pentahydrate 26970-82-1

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3*	3
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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