

F00163 Sodium selenite-5H₂O PPA ,025KFL**00000020657**

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sodium selenite pentahydrate

Number : 00000020657

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

GHS Label elements, including precautionary statements

F00163 Sodium selenite-5H₂O PPA ,025KFL**000000020657**

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

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 plant.

Hazards not otherwise classified

: Contact with acids liberates toxic gas.

F00163 Sodium selenite-5H2O PPA ,025KFL

000000020657

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

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 INGREDIENTSFormula : Na₂SeO₃ · 5H₂O

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

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray jet
Foam

F00163 Sodium selenite-5H₂O PPA ,025KFL**000000020657**

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

	Carbon dioxide (CO ₂) 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	: 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.
Environmental precautions	: Do not flush into surface water. Prevent further leakage or spillage if safe to do so.
Methods for 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**

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.

F00163 Sodium selenite-5H2O PPA ,025KFL

000000020657

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

Storage

Requirements for storage areas and containers : 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.
 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/m ³	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Expressed as : as Se			

SAFETY DATA SHEET


F00163 Sodium selenite-5H₂O PPA ,025KFL

00000020657

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

Sodium selenite pentahydrate	26970-82-1	REL : Recomm ended exposure limit (REL):	0.2 mg/m ³	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Further information	:	Expressed as : as Se			

Sodium selenite pentahydrate	26970-82-1	PEL : Permissi ble exposure limit	0.2 mg/m ³	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Further information	:	Expressed as : as Se			

Sodium selenite pentahydrate	26970-82-1	TWA : Time weighted average	0.2 mg/m ³	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Expressed as : as Se			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	crystalline
Color	:	colourless
Odor	:	odourless
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
Flammability	:	The product is not flammable.

F00163 Sodium selenite-5H₂O PPA ,025KFL**00000020657**

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: negligible
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

F00163 Sodium selenite-5H₂O PPA ,025KFL**00000020657**

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

SECTION 10. STABILITY AND REACTIVITY

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 to avoid	: 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)
Sensitisation	: Species: Mouse Result: Causes sensitisation. Method: OECD Test Guideline 429

F00163 Sodium selenite-5H₂O PPA ,025KFL**00000020657**

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

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
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*

F00163 Sodium selenite-5H₂O PPA ,025KFL**000000020657**

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

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: Hyallela 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**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)

SAFETY DATA SHEET



F00163 Sodium selenite-5H2O PPA ,025KFL

00000020657

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

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 Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : Not in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

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

Korea. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : Not in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as : Not in compliance with the inventory

SAFETY DATA SHEET



F00163 Sodium selenite-5H2O PPA ,025KFL

000000020657

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

published by ERMA New Zealand

National regulatory information

US. EPA CERCLA Hazardous Substances (40 CFR 302) : The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the 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 Quantity : 100 lbs

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	

F00163 Sodium selenite-5H₂O PPA ,025KFL**000000020657**

Version 1.0

Revision Date 10/06/2016

Print Date 07/31/2019

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.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group