

Reviewed on 12/28/2015

1 Identification

- · Product identifier
- · Trade name: Sodium Selenite, Cell Culture Reagent
- · Article number: 194741
- · CAS Number:
- 10102-18-8
- EC number: 233-267-9
- · Index number:
- 034-003-00-3
- Molecular Formula Na2SeO3
- Molecular Weight 172.94 g/mol
- · Application of the substance / the mixture Research use only.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com
- · Information department: Product safety department
- Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed. Acute Tox. 3 H331 Toxic if inhaled.



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

· Label elements

- · GHS label elements
- *The substance is classified and labeled according to the Globally Harmonized System (GHS).* • *Hazard pictograms*



- · Signal word Danger
- Hazard-determining components of labeling: sodium selenite
 Hazard statements Fatal if swallowed.
- Takar (j shallon ca. Toxic if inhaled. May cause an allergic skin reaction.
- **Precautionary statements** Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves.

(Contd. on page 2)

Printing date 12/28/2015

Reviewed on 12/28/2015

Trade name: Sodium Selenite, Cell Culture Reagent

(Cantol of march 1)
(Contd. of page 1) (Contd. of page 1)
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
Specific treatment (see on this label).
Call a POISON CENTER/doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Rinse mouth.
IF ON SKIN: Wash with plenty of water.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
$\begin{array}{c} 1 \\ 2 \\ 2 \\ 0 \\ 0 \end{array} \begin{array}{c} Health = 2 \\ Fire = 0 \\ Reactivity = 0 \end{array}$
· HMIS-ratings (scale 0 - 4)
HEALTH4Health = 4FIRE \bigcirc Fire = 0REACTIVITY \bigcirc Reactivity = 0
· Other hazards
· Results of PBT and vPvB assessment
• PBT : Not applicable.
· vPvB: Not applicable.
3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 10102-18-8 sodium selenite
- · Identification number(s)
- EC number: 233-267-9
- · Index number: 034-003-00-3

4 First-aid measures

- · Description of first aid measures
- · General information:
- Immediately remove any clothing soiled by the product.
- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- *After swallowing:* Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

Printing date 12/28/2015

Reviewed on 12/28/2015

(Contd. of page 2)

Trade name: Sodium Selenite, Cell Culture Reagent

• *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

· Handling:

· Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires: Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- Storage: 15-30 °C
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

[·] Control parameters

· Components with limit values that require mon	itoring at the workplace:
---	---------------------------

10102-18-8 sodium selenite

- PEL Long-term value: 0.2 mg/m³
- as Se REL Long-term value: 0.2 mg/m³ as Se
- TLV Long-term value: 0.2 mg/m³ as Se

• Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 4)

US

Printing date 12/28/2015

Reviewed on 12/28/2015

Trade name: Sodium Selenite, Cell Culture Reagent

(Contd. of page 3)

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. • **Protection of hands:**

and the second

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Powder	
Color:	Light grey	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	> 350 °C (> 662 °F)	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Product is not flammable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	

Printing date 12/28/2015

Reviewed on 12/28/2015

Trade name: Sodium Selenite, Cell Culture Reagent

		(Contd. of page 4
· Vapor pressure:	Not applicable.	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with	-	
· Water:	Soluble.	
· Partition coefficient (n-octanol/wa	t ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

10102-18-8 sodium selenite

Oral LD50 7.08 mg/kg (mouse)

2.25 mg/kg (rabbit)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

10102-18-8 sodium selenite

· NTP (National Toxicology Program)

10102-18-8 sodium selenite

(Contd. on page 6)

3

R

Printing date 12/28/2015

Reviewed on 12/28/2015

(Contd. of page 5)

Trade name: Sodium Selenite, Cell Culture Reagent

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

· Toxicity

• Aquatic toxicity:

10102-18-8 sodium selenite

Oral LC50 / 96 h 2.75 mg/L (Oncorhynchus mykiss)

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- \cdot Additional ecological information:

· General notes:

Water hazard class 2 (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

1400			, •
141	ranspor	t intor	mation
	<i>curspor</i>	i ingon	

· UN-Number · DOT, ADR, IMDG, IATA	UN2630
· UN proper shipping name	
· DOT, IATA	Selenates
$\cdot ADR$	2630 Selenates (sodium selenite), ENVIRONMENTALL
	HAZARDOUS
·IMDG	SELENATES
• Transport hazard class(es) • DOT	
тохис	
· Class	6.1 Toxic substances
	(Contd. on page

Printing date 12/28/2015

Reviewed on 12/28/2015

	(Contd. of page
Label	6.1
ADR	
Class Label	6.1 Toxic substances 6.1
IMDG, IATA	
Class	6.1 Toxic substances
Label	6.1
Packing group	
DOT, ADR, IMDG, IATA	Ι
Environmental hazards:	
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Toxic substances
Danger code (Kemler): EMS Number:	66 6.1-04
Stowage Category	6.1-64 E
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 kg
	On cargo aircraft only: 50 kg
Hazardous substance:	0045 lbs, 4560 kg
ADR	
Excepted quantities (EQ)	Code: E5
	Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 300 g
IMDG Limited quantities (LO)	0
Limited quantities (LQ) Excepted quantities (EQ)	Code: E5
Excepted quantances (EQ)	Maximum net quantity per inner packaging: 1 g
	Maximum net quantity per outer packaging: 300 g
UN "Model Regulation":	UN 2630 SELENATES (SODIUM SELENITE), 6.1, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

Substance is listed.

(Contd. on page 8)

US

Safety Data Sheet acc. to OSHA HCS

Printing date 12/28/2015

Reviewed on 12/28/2015

Trade name: Sodium Selenite, Cell Culture Reagent

Section 212 (Section Louis Lands III (Section)	(Contd. of page
Section 313 (Specific toxic chemical listings): Substance is listed.	
TSCA (Toxic Substances Control Act):	
Substance is listed.	
Proposition 65	
Chemicals known to cause cancer:	
Substance is not listed.	
Chemicals known to cause reproductive toxicity for females:	
Substance is not listed.	
Chemicals known to cause reproductive toxicity for males:	
Substance is not listed.	
Chemicals known to cause developmental toxicity:	
Substance is not listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
10102-18-8 sodium selenite	
TLV (Threshold Limit Value established by ACGIH)	
Substance is not listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
Substance is not listed.	
GHS06 GHS07 Signal word Danger	
Hazard-determining components of labeling:	
sodium selenite	
Hazard statements	
Fatal if swallowed. Toxic if inhaled.	
May cause an allergic skin reaction.	
Precautionary statements	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wear protective gloves. Wash 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 must not be allowed out of the workplace.	
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
Specific treatment (see on this label). Call a POISON CENTER/doctor.	
IF INHALED: Remove person to fresh air and keep comfortable for breathi	ng.
Wash contaminated clothing before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
Rinse mouth.	
IF ON SKIN: Wash with plenty of water. Store locked up.	
siore worked up.	(Contd. on page

(Contd. on page 9)

Printing date 12/28/2015

Reviewed on 12/28/2015

(Contd. of page 8)

Trade name: Sodium Selenite, Cell Culture Reagent

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department

· Date of preparation / last revision 12/28/2015 / -· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 2: Acute toxicity, Hazard Category 2 Acute Tox. 3: Acute toxicity, Hazard Category 3 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1