

SAFETY DATA SHEET

Creation Date 16-Nov-2010

Revision Date 19-Jan-2018

Revision Number 3

1. Identification

AC200730000; AC200730250; AC200731000; AC200735000

Product Name Sodium selenite

Cat No. :

CAS-No Synonyms 10102-18-8 Disodium Selenite; Selenious Acid

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	
Acute Inhalation Toxicity - Dusts and M	ists
Skin Sensitization	

Category 2 Category 3 Category 1

Label Elements

Signal Word Danger

Hazard Statements Fatal if swallowed Toxic if inhaled May cause an allergic skin reaction



Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Wear eye/face protection
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Remove/Take off immediately all contaminated clothing
Wash contaminated clothing before reuse
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects
Contest with saids liberates taxis as

Contact with acids liberates toxic gas

3. Composition/Information on Ingredients

Component		CAS-No	Weight %
Sodium selenite		10102-18-8	>95
	4.	First-aid measures	
Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, the eyelids, for at least 15 minutes.			ediately with plenty of water, also under
Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.			
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. Immediate medical attention is required. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.		
Ingestion	Never give anything by mouth to an unconscious person. Call a physician immediately.		
Most important symptoms and effects	May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itchin swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, or pain, muscle pain or flushing Treat symptomatically		
Notes to Physician			
	5. Fi	re-fighting measures	
Suitable Extinguishing Media	Use extinguis	shing measures that are appropriate to	local circumstances and the

	surrounding environment.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	

Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Non-combustible.

Hazardous Combustion Products

None known

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 4	Flammability 0	Instability 0	Physical hazards N/A		
	6. Accidental rel	ease measures			
Personal Precautions	ecautions Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation.				
Environmental Precautions Do not flush into surface water or sanitary sewer system.					
Methods for Containment and Clean Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for Up disposal.					
	7. Handling a	and storage			
Handling	Do not breathe dust. Do no with appropriate exhaust ve		othing. Use only in area provided		
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep				

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Sodium selenite	TWA: 0.2 mg/m ³	(Vacated) TWA: 0.2 mg/m ³	IDLH: 1 mg/m ³	TWA: 0.2 mg/m ³
			TWA: 0.2 mg/m ³	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

locked-up.

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
рН	9 50 g/l aq.sol
Melting Point/Range	350 °C / 662 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	3.1 (H2O=1)
Solubility	950 g/L @ 20 °C
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	>300 °C
Viscosity	Not applicable
Molecular Formula	Na2 O3 Se
Molecular Weight	172.94

10. Stability and reactivity

Reactive Hazard	Yes	
Stability	Stable under normal conditions. Moisture sensitive.	
Conditions to Avoid	Temperatures above 300°C. Incompatible products. Exposure to moist air or water.	
Incompatible Materials	Acids, Strong acids	
Hazardous Decomposition Products None under normal use conditions		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information Component Information

Commonweat	r				1.050	nhalation	
Component Sodium selenite		LD50 Oral LD50 = 7 mg/kg (R		LD50 Dermal Not listed		LC50 Inhalation Not listed	
	Ŭ			Hornotod			
Toxicologically Syner	rgistic	No information av	ailable				
Products							
Delayed and immedia	ate effects	as well as chronic effe	ects from short ar	id long-term expos	sure		
Irritation		No information av	ailable				
Sensitization		No information av	ailable				
Carcinogenicity		The table below in	ndicates whether e	ach agency has liste	ed any ingredient a	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Sodium selenite	10102-18	-8 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		Ames test: positiv	Ames test: positive.				
Reproductive Effects		No information av	No information available.				
Developmental Effects		No information av	No information available.				
Teratogenicity		No information av	No information available.				
STOT - single exposu STOT - repeated expo		None known None known					
Aspiration hazard		No information av	No information available				
Symptoms / effects,both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing delayed of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flush							
Endocrine Disruptor	Informatio	n No information av	No information available				
Other Adverse Effects		See actual entry i	See actual entry in RTECS for complete information.				
			ogical infor				

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

 Use Disposal Methods
 Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information				
DOT UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG UN-No	UN2630 SELENATES Sodium selenite 6.1 I UN2630			

Proper Shipping Name Hazard Class Packing Group IATA	SELENATES 6.1 I
UN-No	UN2630
Proper Shipping Name	SELENITES
Hazard Class	6.1
Packing Group	I
IMDG/IMO	
UN-No	UN2630
Proper Shipping Name	SELENATES
Hazard Class	6.1
Packing Group	1
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium selenite	Х	Х	-	233-267-9	-		Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA	12(b)
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Not applicable

SARA	313
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Not	applicable	

Not applicable

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Sodium selenite	10102-18-8	>95	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium selenite	Х	100 lb	Х	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sodium selenite	Х		-

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium selenite	100 lb	100 lb

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium selenite	X	Х	Х	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	16-Nov-2010 19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

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

End of SDS