

SAFETY DATA SHEET

Creation Date 16-November-2010 Revision Date 19-January-2018 **Revision Number** 4 1. Identification **Product Name** Sodium sulfide AC310180000; AC310180100; AC310180500; AC310182500 Cat No. : CAS-No 1313-82-2 Sodium sulfide anhydrous; sodium sulfide with <30% water of crystalization; sodium Synonyms sulphide; sodium monosulfide **Recommended Use** Laboratory chemicals. Uses advised against Not for food, drug, pesticide or biocidal product use Details of the supplier of the safety data sheet **Company** Importer/Distributor Manufacturer **Fisher Scientific** Acros Organics **Fisher Scientific** One Reagent Lane One Reagent Lane 112 Colonnade Road, Fair Lawn, NJ 07410 Fair Lawn, NJ 07410 Ottawa, ON K2E 7L6, Tel: (201) 796-7100 Canada Tel: 1-800-234-7437 **Emergency Telephone Number** For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

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

Category 1 Category 3 Category 3 Category 1 B Category 1 Category 1 Category 1

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Corrosive to metals
Acute oral toxicity
Acute dermal toxicity
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation
Combustible Dusts
Health Hazards Not Otherwise Classified
Contact with acids liberates toxic gas
Corrosive to the respiratory tract

Label Elements

Signal Word

Danger

Hazard Statements

May form combustible dust concentrations in air

May be corrosive to metals Toxic if swallowed or in contact with skin Causes severe skin burns and eye damage Contact with acids liberates toxic gas Corrosive to the respiratory tract



Precautionary Statements Prevention

Keep container tightly closed Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Take any precaution to avoid mixing with acids Do not breathe dust/fumes/gas/mist/vapours/spray Wear respiratory protection Keep only in original container Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection Response In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER/doctor IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Rinse mouth Do NOT induce vomiting Wash contaminated clothing before reuse Absorb spillage to prevent material damage Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant polypropylene container with a resistant inliner Store in a dry place Disposal Dispose of contents/container to an approved waste disposal plant

Other Hazards

Very toxic to aquatic organisms Light sensitive

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Sodium sulfide	1313-82-2	90

4. First-aid measures

General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. 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. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

5. Fire-fighting measures					
Unsuitable Extinguishing Media	No information available				
Flash Point	No information available				
Method -	No information available				
Autoignition Temperature					
Explosion Limits					
Upper	No data available				
Lower	No data available				
Sensitivity to Mechanical Impact	t No information available				
Sensitivity to Static Discharge					
Specific Horordo Avising from the C					
Sensitivity to Static Discharge					

Specific Hazards Arising from the Chemical The product causes burns of eyes, skin and mucous membranes. Fine dust dispersed in air may ignite. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Sulfur oxides Sulfides

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. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA_ Health 3	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions Environmental Precautions	ventilation. Keep people a Do not flush into surface v contaminate ground water	quipment. Evacuate personnel t way from and upwind of spill/lea vater or sanitary sewer system. r system. Prevent product from e icant spillages cannot be contai	ak. Avoid dust formation. Do not allow material to entering drains. Local authorities
Methods for Containment and Clo Up	ean Sweep up or vacuum up s formation.	spillage and collect in suitable co	ontainer for disposal. Avoid dust

7. Handling and storage

Handling	Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only under a chemical fume hood. Do not ingest. Do not breathe vapors/dust. Avoid dust formation.		
Storage	Keep in a dry place. Keep container tightly closed. Keep away from direct sunlight. Corrosives area. Store under an inert atmosphere. Keep refrigerated.		
	8. Exposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure		

limitsestablished by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Hand Protection	Goggles Protective gloves		
Glove material	Breakthrough time	Glove thickness	Glove comments
Natural rubber	See manufacturers	-	Splash protection only
Nitrile rubber	recommendations		
Neoprene			
PVC			

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. Physical and chemical propertiesPhysical StatePowder SolidAppearanceLight creamOdorrotten-egg likeOdor ThresholdNo information available

pH Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight
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No information available No data available No information available No information available Not applicable No information available No data available No data available No information available Not applicable No information available soluble No data available No information available Not applicable Na2 S

10. Stability and reactivity

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Reactive Hazard	Yes		
Stability	Stable under normal conditions. Hygroscopic. Air sensitive. Light sensitive.		
Conditions to Avoid	Exposure to air. Exposure to light. Incompatible products. Exposure to moist air or water.		
Incompatible Materials	Acids, Metals, copper		
Hazardous Decomposition Products Sulfur oxides, Sulfides			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component		LD50 Oral		LD50 Dermal	LC50	Inhalation
Sodium sulfic	le	LD50 = 208 mg/kg (Rat)	< 34	10 mg/kg (Rabbit)	No	t listed
Foxicologically Syno Products Delayed and immedi	-	No information availa		nd long-term expo	osure_	
rritation		Causes severe irritation and or burns				
Sensitization		No information available				
Carcinogenicity		The table below indicate	ates whether e	ach agency has lis	ted any ingredient	as a carcinogei
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium sulfide	1313-82-2	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
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No information available.

Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium sulfide	Not listed	LC50: 7.7 - 29.1 mg/L, 96h (Poecilia reticulata)	EC50 = 4.29 mg/L 15 min	EC50 = 2.1 mg/L 48h
Persistence and Degrada	bility Soluble in wa	ater Persistence is unlikely	based on information avail	able.
Bioaccumulation/ Accum	ulation No information	on available.		
Mobility . Wil		e mobile in the environmen	t due to its water solubility.	
	Component		log Pow	
	Sodium sulfide		-3.5 - 3.5	

13. Disposal considerations

Waste 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	UN1385
Proper Shipping Name	SODIUM SULPHIDE, ANHYDROUS
Hazard Class	4.2
Packing Group	II
TDG	
UN-No	UN1385
Proper Shipping Name	SODIUM SULPHIDE, ANHYDROUS
Hazard Class	4.2
Subsidiary Hazard Class	II
UN-No	UN1385
Proper Shipping Name	SODIUM SULPHIDE, ANHYDROUS
Hazard Class	4.2
Packing Group	II
IMDG/IMO	
UN-No	UN1385
Proper Shipping Name	SODIUM SULPHIDE, ANHYDROUS
Hazard Class	4.2

Packing Group

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

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International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium sulfide	Х	-	Х	215-211-5	-		Х	Х	Х	Х	Х

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

16. Other information				
Prepared By	Regulatory Affairs			
	Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
Creation Date	16-November-2010			
Revision Date	19-January-2018			
Print Date	19-January-2018			
Revision Summary	This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.			

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