

SAFETY DATA SHEET

1. Identification

Product identifier: SODIUM SULFIDE

Other means of identification Product No.: 3910, 31111

Recommended use and restriction on use

Recommended use: Not determined. Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

	Avantor Performance Materials, LLC. 3477 Corporate Parkway Center Valley, PA 18034
Telephone:	
·	Customer Service: 855-282-6867
Fax:	610-573-2610
Contact Person:	Environmental Health & Safety
E-mail:	info@avantormaterials.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Eye Irritation	Category 1

Category 1

Unknown toxicity - Health

Acute toxicity, oral	100 %
Acute toxicity, dermal	100 %
Acute toxicity, inhalation, vapor	100 %
Acute toxicity, inhalation, dust or mist	100 %

Environmental Hazards

Acute hazards to the aquatic environment

Unknown toxicity - Environment

Acute hazards to the aquatic 0 % environment SDS CA - SDSMIX000187



Chronic hazards to the aquatic 100 % environment

Label Elements

Hazard Symbol:

	1 Alexandre
Signal Word:	Danger
Hazard Statement:	Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life.
Precautionary Statements	
Prevention:	Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.
Response:	Immediately call a POISON CENTER/doctor. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Collect spillage.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	Content in percent (%)*
SODIUM SULFIDE (HYDRATED FORM)		1313-84-4	98 - 100%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures



General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.	
Ingestion:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.	
Inhalation:	Move to fresh air. Get medical attention if symptoms persist. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.	
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.	
Most important symptoms/effect	s, acute and delayed	
Symptoms:	Corrosive to skin and eyes. Causes digestive tract burns.	
Hazards:	None known.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed. Treat symptomatically.	
5. Fire-fighting measures		
General Fire Hazards:	In case of fire and/or explosion do not breathe fumes.	
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	None known.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters		
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.	
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame	
	retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	



Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment.	
Methods and material for containment and cleaning up:	Neutralize with lime or soda ash. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.	
Notification Procedures:	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.	
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.	
7. Handling and storage		
Precautions for safe handling:	Do not taste or swallow. Do not get in eyes, on skin, on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. Wear protective gloves/protective clothing/eye protection/face protection. See Section 8 of the SDS for Personal Protective Equipment. Wash hands thoroughly after handling.	
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feeding stuffs. Avoid heat, sparks, open flames and other ignition sources. Store away from incompatible materials. Avoid conditions which create dust. Store in a corrosion-resistant container with a resistant inner liner.	
8. Exposure controls/personal	protection	
Control Parameters Occupational Exposure Limi	ts None of the components have assigned exposure limits.	
Appropriate Engineering Controls	No data available.	
Individual protection measures,	such as personal protective equipment	
General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an	

Eye/face protection: Wear safety glasses with side shields (or goggles). Use tight fitting goggles if dust is generated.

acceptable level. An eye wash and safety shower must be available in the

 Skin Protection Hand Protection:
 Chemical resistant gloves

 Other:
 Wear suitable protective clothing.

immediate work area.



Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with a high efficiency particulate filter.
Hygiene measures:	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state:	Solid
Form:	Crystals
Color:	White
Odor:	Rotten egg odor
Odor threshold:	No data available.
pH:	Caustic
Melting point/freezing point:	Approximate 50 °C
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explose	sive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	1,43 g/ml (20 °C)
Relative density:	1,43 (20 °C)
Solubility(ies)	
Solubility in water:	2.000 g/l
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Other information	
Molecular weight:	240,18 g/mol (H2O.1/9Na2S)
10. Stability and reactivity	
Reactivity: No dang	erous reaction known under conditions of normal use.



Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, sparks, flames. Contact with incompatible materials. Moisture.
Incompatible Materials:	Strong oxidizing agents. Acids. Aluminum. Zinc. Oxidizing agents.
Hazardous Decomposition Products:	Hydrogen sulfide.

11. Toxicological information

Information on likely routes of e Inhalation:	xposure Dust may irritate respiratory system.	
Skin Contact:	Causes severe skin burns.	
Eye contact:	Causes serious eye damage.	
Ingestion:	Harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed.	
Information on toxicological effe	ects	
Acute toxicity (list all possible	e routes of exposure)	
Oral Product:	No data available.	
Dermal Product:	No data available.	
Inhalation Product:	No data available.	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	Causes severe skin burns.	
Serious Eve Damage/Eve Irritation		

Serious Eye Damage/Eye Irritation Product: Causes serious eye damage.

Respiratory or Skin Sensitization Product: Not a skin sensitizer.

Carcinogenicity Product:

This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified



No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product:	No mutagenic components identified	
In vivo Product:	No mutagenic components identified	
Reproductive toxicity Product:	No components toxic to reproduction	
Specific Target Organ Toxicity Product:	y - Single Exposure None known.	
Specific Target Organ Toxicity - Repeated Exposure Product: None known.		
Aspiration Hazard Product:	Not classified	
Other effects:	None known.	

12. Ecological information

Ecotoxicity:

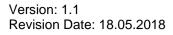
Acute hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	There are no data on the degradability of this product.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BC Product:	CF) No data available on bioaccumulation.	



Partition Coefficient n-octanol / water (log Kow) Product: No data available.		
Mobility in soil:	No data available.	
Other adverse effects:	Very toxic to aquatic life.	
13. Disposal considerations		
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.	
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.	
14. Transport information		
TDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant: Special precautions for user: IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group: Marine Pollutant: Special precautions for user:	UN 1849 SODIUM SULPHIDE, HYDRATED 8 8 11 No Not determined. 8 8 8 F-A, S-B II No Not determined.	
IATA UN Number: UN Proper Shipping Name: Transport Hazard Class(es): Class: Label(s): Packing Group: Marine Pollutant: Special precautions for user: Cargo aircraft only:	UN 1849 Sodium sulphide, hydrated 8 8 II No Not determined. Allowed.	

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

15. Regulatory information





Canada Federal Regulations List of Toxic Substances (CEPA, Schedule 1) Not Regulated		
Export Control List (CEPA 1999, Schedule 3) Not Regulated		
National Pollutant Release Inventory (NPRI) Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements NPRI PT5 Not Regulated		
	Not Regulated nt Release Inventory (NPRI) (Schedule 1, Parts 1-4) Not Regulated	
Greenhouse Gases Not Regulated		
Controlled Drugs and Substances Act		
CA CDSI	Not Regulated	

CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated

Precursor Control Regulations

Not Regulated

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol Not applicable



Inventory Status:

Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Japan ISHL Listing: Japan Pharmacopoeia Listing: On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory Not in compliance with the inventory. Not in compliance with the inventory. On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory. Not in compliance with the inventory. Not in compliance with the inventory.

16.Other information, including date of preparation or last revision		
Revision Date:	18.05.2018	
Version #:	1.1	
Further Information:	No data available.	
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