

SAFETY DATA SHEET

Revision Date 29-June-2018

Revision Number 1

1. Identification

Product Name	Sodium sulfide		
Cat No. :	88697		
CAS-No	12034-39-8		
Synonyms	No information available		
Recommended Use	Laboratory chemicals.		
Uses advised against	Food, drug, pesticide or biocidal product use		

Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (800) 579-7421.

2. Hazard(s) identification

Classification

WHMIS 2015 Classification

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

Flammable solids	Category 1
Self-heating substances and mixtures	Category 2
Acute oral toxicity	Category 4
Acute dermal toxicity	Category 3
Skin Corrosion/irritation	Category 1 B
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word Danger

Hazard Statements

Flammable solid Self-heating in large quantities; may catch fire Harmful if swallowed Toxic in contact with skin Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep cool. Protect from sunlight

Ground/bond container and receiving equipment

Do not breathe dust/fumes/gas/mist/vapours/spray

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

IF INHALED: Remove person to fresh air and keep 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

Do NOT induce vomiting

Wash contaminated clothing before reuse

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

Store locked up

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

Maintain air gap between stacks/pallets

Store bulk masses greater than .? kg/ .? lbs at temperatures not exceeding .? °C/ .? °F

Store away from other materials

Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Very toxic to aquatic organisms

3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Sodium sulfide (Na2(S4))	12034-39-8	<=100	

4. First-aid measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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
Suitable Extinguishing Media	Dry sand. Carbon dioxide (CO 2). Dry powder. Do not use water or foam. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. CO

		2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable E	xtinguishing Media	No information available
Flash Poi Method -	int	No information available No information available
Autoignition Explosion Li		No information available
Upper		No data available
Lower		No data available
	ty to Mechanical Impact ty to Static Discharge	t No information available No information available

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

Hazardous Combustion Products

Sulfur oxides Silicon dioxide Hydrogen sulfide (H2S)

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.

<u>NFPA</u> Health 3	Flammability 3	Instability 1	Physical hazards -		
	6. Accidental rel	lease measures			
Personal Precautions Environmental Precautions	ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation.				
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid due formation.					
	7. Handling a	and storage			
Handling	Wear personal protective e	quipment. Do not get in eyes,	on skin, or on clothing. Use only		

 under a chemical fume hood. Do not ingest. Do not breathe vapors/dust. Avoid dust formation.

 Storage
 Store under an inert atmosphere. Protect from moisture. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.

 <u>8. Exposure controls / personal protection</u>

 Exposure Guidelines

 This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures

None under normal use conditions. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye Protection Hand Protection	Goggles Wear appropriate protectiv	Goggles Wear appropriate protective gloves and clothing to prevent skin exposure.				
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

No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

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 properties				
9. Pl Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Flash Point	Solid No information available rotten-egg like No information available No information available 275 °C / 527 °F No information available No information available			
Evaporation Rate Flammability (solid,gas)	Not applicable No information available			

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

No data available No data available No information available Not applicable No information available No data available No information available No information available Not applicable Na2 S4 174.24

10. Stability and reactivity

Yes
Moisture sensitive. Hygroscopic.
Exposure to moist air or water.
Acids, Oxidizing agents
s Sulfur oxides, Silicon dioxide, Hydrogen sulfide (H2S)
Hazardous polymerization does not occur.
None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Informa	ation						
Componer	nt	LD50 Oral		LD50 Dermal	LC50	Inhalation	
Sodium sulfide (N	la2(S4)) L	D50 128 - 130 mg/kg (Rat) LD50 590 - 1650 mg/kg (Rabbit) Not listed					
Toxicologically Syr Products Delayed and immed	-	No information ava		d long-term expos	ure_		
Irritation	No information available						
Sensitization	sitization No information available						
Carcinogenicity		The table below inc	dicates whether ea	ach agency has liste	d any ingredient	as a carcinogen	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Sodium sulfide	12034-39-8	Not listed	Not listed	Not listed	Not listed	Not listed	

Sodium sulfide (Na2(S4))	12034-39-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects No information available						
Reproductive Effect	S	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos	sure	Respiratory system	n			

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

Persistence and Degradability	ility 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.			
	13. Disposal considerations			
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a			

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

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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
Packing Group	II
IATA	
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	II
	15. Regulatory information

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

International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium sulfide (Na2(S4))	Х	-	Х	234-805-5	-		-	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	Product Safety Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	29-June-2018 29-June-2018 Mise à jour des systèmes de création SDS, remplace ChemGes SDS No. 12034-39-8/2.

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