

Material Safety Data Sheet (MSDS)

Product Name: Sodium sulfide (Sodium Sulfur)

1. Chemical Product and Company Identification

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2. Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1313-84-4	Sodium sulfide (Sodium Sulfur) ($\text{Na}_2\text{S} \cdot 5\text{H}_2\text{O}$)	58-60	1313-82-2 1313-84-4 (pentahydrate)

3. Hazard(s) identification

3.1 Classification of the substance or mixture

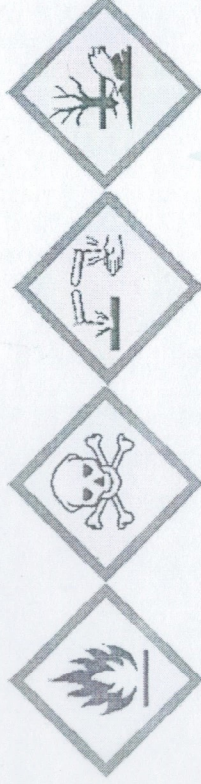
Classification according to Regulation (EC) No 1272/2008

Self-heating substances and mixtures (Category 1), H251
Corrosive to Metals (Category 1), H290
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Sub-category 1B), H314
Serious eye damage (Category 1), H318
Short-term (acute) aquatic hazard (Category 1), H400

3.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word:

Danger

Hazard statement(s):	
H251	Self-heating; may catch fire.
H290	May be corrosive to metals.
H301 + H311	Toxic if swallowed or in contact with skin
H314	Causes severe skin burns and eye damage
H400	Very toxic to aquatic life.

Precautionary statement(s):

P235	Keep cool.
P260	Do not breathe the dust.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

*Supplemental Hazard information(EU):

EUH031	Contact with acids libratest toxic gas
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3.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First-aid measures

4.1 Description of first-aid measures

General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air. Call in physician.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
In case of eye contact	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
If swallowed	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Sulfur oxides /Sodium oxides /Not combustible. /Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

8. Exposure controls/personal protection

8.1 Control parameters Ingredients with workplace control parameters

8.2 Exposure controls Personal protective equipment

Eye/face protection:

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Body Protection:

protective clothing

Respiratory protection:

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure:

Do not let product enter drains.

9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state	solid
b) Color	yellow
c) Odor	No data available

d) Melting point/freezing point	Melting point/range: 950 °C - lit.
e) Initial boiling point and boiling range	No data available
f) Flammability (solid, gas)	No data available
g) Upper/lower flammability or explosive limits	No data available
h) Flash point	Not applicable
i) Autoignition temperature	Self-heating; may catch fire.
j) Decomposition temperature	No data available
k) pH	No data available
l) Viscosity	Viscosity, kinematic: No data available
	Viscosity, dynamic: No data available
m) Water solubility	178 g/l at 20 °C - OECD Test Guideline 105- completely soluble
n) Partition coefficient:	Not applicable for inorganic substances
o) Vapor pressure	No data available
p) Density	Relative density
	1,64 at 21,1 °C - OECD Test Guideline 109
q) Relative vapor density	
r) Particle characteristics	No data available

9.2 Other safety information

No data available

10. Stability and reactivity

10.1 Reactivity

Self-heating; may catch fire. Contact with acids liberates toxic gas.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Generates dangerous gases or fumes in contact with: Acids

10.4 Conditions to avoid

Air Avoid moisture. Light. no information available

10.5 Incompatible materials

Oxidizing agents, Copper, Zinc, Acids

10.6 Hazardous decomposition products

In the event of fire: see section 5

13. Disposal considerations

13.1 Waste treatment methods

Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

16: Other information

Full text of H-Statements referred to under sections 2 and 3.	
EUH031	Contact with acids liberates toxic gas.
H251	Self-heating; may catch fire.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin.
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered.

14. Transport information

14.1 UN number ADR/RID: 1385	IMDG: 1385	IATA: 1385
14.2 UN proper shipping name ADR/RID: SODIUM SULPHIDE, ANHYDROUS IMDG: SODIUM SULPHIDE, ANHYDROUS IATA: Sodium sulphide, anhydrous		
14.3 Transport hazard class(es) ADR/RID: 4.2	IMDG: 4.2	IATA: 4.2
14.4 Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5 Environmental hazards ADR/RID: yes	IMDG Marine pollutant: yes	IATA: no
14.6 Special precautions for user No data available		