

Sodium sulfure hydraté
SP-B-T-N
Danger

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Ref. n° : 106 059
 Trade name : Sodium sulfure.
 Company identification : JEULIN
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 Use : laboratory use

SECTION 2. Hazards identification

Classification EC 67/548 or EC 1999/45 : T; R24
 Xn; R22
 R31
 C; R34
 N; R50

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Hazard Class and Category Code

- Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4)
 Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3)
 Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B)
- Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1)

Label elements
Hazard pictograms


- Signal words : Danger
- Hazard statements : H314 : Causes severe skin burns and eye damage.
 H311 : Toxic in contact with skin.
 H302 : Harmful if swallowed.
 H400 : Very toxic to aquatic life.
- Supplemental hazard information : EUH031 : Contact with acids liberates toxic gas.
- Precautionary statements
 - General : P102 : Keep out of reach of children.
 - Prevention : P280 : Wear protective gloves/protective clothing/eye protection/face protection. P273 : Avoid release to the environment.
 - Response : P301+P330+P331+P310+P321 : IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Specific treatment. P305+P351+P338+P310+P321 : 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 or doctor. Specific treatment.
 - Storage : P405 : Store locked up.



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SECTION 3. Composition/information on ingredients

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS nr	EC	EC index	REACH	CERTIFICATE
disodium sulfide; sodium sulfide	: 100 ca %	1313-82-2	215-211-5	016-009-00-8	----	T; R24 Xn; R22 R31 C; R34 N; R50 ----- Acute Tox. 3 (H311) Skin Corr. 1B (H314) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Acute Tox. (EUH031)

SECTION 4. First aid measures

- Inhalation : If you feel unwell, seek medical advice.
Assure fresh air breathing.
If breathing is difficult, give oxygen.
If not breathing, give artificial respiration.
- Skin contact : After contact with skin, wash immediately with plenty of water.
Remove contaminated clothing and shoes.
- Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.
Contact ophthalmologist immediately.
- Ingestion : **If swallowed, rinse mouth with water (only if the person is conscious).**
: **Do not induce vomiting because of corrosive effects.**
: **Seek medical attention immediately.**

SECTION 5. Fire-fighting measures

- Extinguishing media
- Suitable : Use extinguishing media appropriate for surrounding fire.
- Special exposure hazards : Not combustible.
Under fire conditions, hazardous fumes will be present.
Thermal decomposition generates :
Sulfur dioxide.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Knock down vapour cloud with water spray or other appropriate solution.
Avoid (reject) fire-fighting water to enter environment.

SECTION 6. Accidental release measures

- Environmental precautions : Prevent entry to sewers and public waters.
- After spillage and/or leakage : Sweep up dry powder and dispose properly.
Flush/dilute residue with water.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- For emergency responders : Evacuate and limit access.
: **Wear recommended personal protective equipment.**
: Avoid dust production.

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SECTION 7. Handling and storage

- Precautions in handling and storage** : Local exhaust and general ventilation must be adequate to meet exposure standards.
- Handling** : Wear suitable protective clothing.
Avoid all unnecessary exposure.
Do not breathe dust.
- Storage** : Close container tightly after use.
Store in dry, cool, well-ventilated area.
Keep away from heat. (+15°C / +25°C)
- Storage - away from** : **Acids.**

SECTION 8. Exposure controls/personal protection

- Personal protection** : Avoid all unnecessary exposure.
- Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- Hand protection** : Wear suitable gloves resistant to chemical penetration.
- Skin protection** : Wear suitable protective clothing.
- Eye protection** : Chemical goggles or safety glasses.
- Others** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Provide good ventilation in process area to prevent formation of vapour.

SECTION 9. Physical and chemical properties

- Chemical name** : Sodium sulfure.
- Physical state** : Solid.
- Colour** : Colourless.
- Odour** : Characteristic.
- pH value** : No data available.
- Molecular weight** : 78,04
- Melting point [°C]** : 920 °C. (Na₂S anhydre).
- Initial boiling point [°C]** : No data available.
- Density** : (20 °C) : -1,43
- Vapour pressure [hPa]** : No data available.
- Solubility in** : Water. (10 °C) : 470 g/L
(50 °C) : 960 g/L
Ethanol. (20 °C) : Peu soluble.
- Flash point [°C]** : Not applicable.
- Auto-ignition temperature [°C]** : Not applicable.
- Explosion limits**
- Explosion limits - lower [%]** : Not applicable.
- Explosion limits - upper [%]** : Not applicable.
- Log P octanol / water at 20°C** : No data available.



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SECTION 10. Stability and reactivity

- Conditions to avoid** : Light sensitive.
Air sensitive.
Moisture sensitive.
Hygroscopic.
Heat.
- Materials to avoid** : Acids.
Strong oxidizers. (Peroxydes, chromates, dichromates, chlorates, perchlorates, permanganates, nitrates, acide nitrique concentré, acide sulfurique concentré...).
- Hazardous reactions** : **Contact with acids liberates toxic gas.**
: **Hydrogen sulfide.**
: Potential dust explosion hazard.
- Hazardous decomposition products** : Sulfur dioxide.

SECTION 11. Toxicological information

- Acute toxicity**
- **Inhalation** : Inhalation of vapour or fumes can cause severe breath difficulties.
Fumes / dust / aerosols very corrosive to the respiratory tract and mucous membranes.
Respiratory oedema and hemorrhage.
 - **Dermal** : Causes severe burns.
Risk of serious damage.
 - **Ocular** : Highly corrosive to eyes.
Destruction of eye tissue.
Risk of serious permanent damages to eyes if the product is not rapidly removed.
 - **Ingestion** : Gastrointestinal Bleeding, stomach and esophageal perforations, necrosis and metabolic acidosis, digestive stenosis.
The ingestion causes severe corrosion can lead to tissue destruction of the mouth, throat and gastrointestinal tract.
Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.
 - **Other** : This material or its emissions may affect the nervous system.
Cyanosis may occur (lips and fingernails turn blue).
Other toxic properties can not be excluded.
- Rabbit dermal LD50 [mg/kg]** : No data available.
- Rat inhalation LC50 [mg/l/4h]** : No data available.
- Dermal irritation (rabbit)** : No data available.
- Eyes irritation (rabbit)** : No data available.
- Mucous membrane irritation (rabbit)** : No data available.
- Chronic toxicity** : Not expected to be toxic.
- Other toxicological information** : To our knowledge, the toxicological properties have not been extensively researched. Other toxic properties can not be excluded. Observe all precautions for handling chemicals.

SECTION 12. Ecological information

- Ecological effects information** : Very toxic to aquatic organisms.
Avoid release to the environment.
May pollute public waters.
Harmful effect by changing the pH.
- ThOD (gO2/g)** : No data available.
- COD** : No data available.
- BOD** : No data available.
- BOD 5 (gO2/g)** : No data available.
- Persistence and degradability** : No data available.
- Bioaccumulative potential** : No data available.
No data available.



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SECTION 12. Ecological information (continued)

- Information on elimination** : Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- Biodegradation [%]** : No data available.

SECTION 13. Disposal considerations

- Disposal** : Dispose of this material and its container at hazardous or special waste collection point. Containers, or internal liners coming from a container, having contained this product are also considered as hazardous wastes. Do not re-use empty container. Dispose in a safe manner in accordance with local/national regulations.
- : **Do not empty into drains.**
- Waste-disposal procedures** : Refer to the MSDS before handling or disposing.

SECTION 14. Transport information

- **Proper shipping name** : 1849 SULFURE DE SODIUM HYDRATÉ contenant au moins 30% d'eau, 8, II, ADR
- **UN No.** : 1849
- **H.I. nr :** : 80
- Land transport**
- **ADR/RID** : Class : 8
Group : II
- Sea transport**
- **IMO-IMDG code** : UN 1849 Sulfure de sodium hydraté
- **Class** : 8
- **Packing group** : II
- Air transport**
- **ICAO/IATA** : UN 1849 Sodium sulfide, hydrated
- **IATA - Class or division** : 8
- **IATA Packing group** : II

SECTION 15. Regulatory information

- Other** : None.

SECTION 16. Other information

- R Phrase(s)** : R22 : Harmful if swallowed.
R24 : Toxic in contact with skin.
R31 : Contact with acids liberates toxic gas.
R34 : Causes burns.
R50 : Very toxic to aquatic organisms.

The contents and format of this MSDS are in accordance with Regulation (EC) N°1907/2006.

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