

SAFETY DATA SHEET

ORIGINAL

Based on Directive 91/155/REC et seq. of the Commission of the European Communities

SODIUM SULPHIDE 60%

Identification of the substance/preparation and the company

1.1 Identification of the substance or preparation:

Synonyms: sodium sulfide, hydrated, conc. water >=40%

CAS no. EC index no. 001313-82-2 016-009-00-8 NFPA code NFPA code Molecular weight : EINECS no. N.A. RTECS no.

1.2 Company/undertaking identification:
TESSENDERLO CHEMIE
Industriepark Schoonhees Zone 1
B-3980 Tessenderlo, Belgium
Tel.: (+32) 13-61 22 11 - Fax.: (+32) 13-67 37 49

1.3 Telephone number for emergency:
(+32) 14-58 45 45
Information centre of dangerous goods (B.I.G.)
Technische Schoolstraat 43A, B-2440 Geel, Belgium

Composition/information on ingredients

	Conc in %	class.	Risks (R-phrases)
01313-82-2	60	C;N	31-34-50
	01313-82-2	01313-82-2 60	

Hazards identification

Causes burns
Corrosive to the skin
Corrosive to the eyes
Contact with acids liberates toxic gases
Very toxic to aquatic organisms

First aid measures

4.1 Eye contact:

Rinse immediately with plenty of water for 15 minutes Do not apply neutralizing agents Consult a doctor/medical service

4.3 After inhalation:
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

Consult a doctor/medical service

- Immediately give lots of water to drink
- Never give water to an unconscious person
- Do not allow vomiting
- Consult a doctor/medical service

SUTE WAIRIN 2061944 Skin contact:
- Wash immediately with lots of water and soap for 15 minute and public COMPANY PU

J. REYSKENS

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Brandweerinformatiecentrum voor Gevaarlijke Stoffen vzw (BIG) / Technische Schoolstraat 43 A, B-2440 Geel 🖀 (+32) 14-58 45 47

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Fire-fighting measures

5.1 Suitable extinguishing media:

- Water spray Polyvalent foam ABC powder Carbon dioxide

5.2 Unsuitable extinguishing media:

No data available

5.3 Special exposure hazards:

- It's dust is explosive with air
- May burn

5.4 Instructions:

- Cool tanks/drums with water spray/remove them into safety
 Dilute toxic gases with water spray
 Take account of toxic firefighting water

5.5 Special protective equipment for firefighters:

- Corrosionproof suit
 Heat/fire exposure: compressed air/oxygen apparatus

Accidental release measures

6.1 Personal protection: see 8.3

6.2 Environmental precautions:

- Prevent soil and water pollution
 Substance must not be discharged into the sewer
 Knock down/dilute dust cloud with water spray
 Contain leaking substance, pump over in suitable containers
 Dam up the solid spill

6.3 Clean-up:

- Stop dust cloud by covering with sand/earth
 Scoop solid spill into closing containers
 Powdered: do not use compressed air for pumping over spills
 Carefully collect the spill/leftovers
 Leftovers: neutralize with soda (sodium carbonate)
 Take collected spill to manufacturer/competent authority
 Clean contaminated surfaces with an excess of water

Handling and storage

7.1 Handling:

- Observe strict hygiene
 Avoid raising dust
 Do not discharge the waste into the drain
 Remove contaminated clothing immediately
 Clean contaminated clothing

7.2 Storage:

- Keep container tightly closed
 Store in a dry area
 Store in a dark area
 Keep away from: heat sources, acids, oxidizing agents, metals

Storage temperature: N.D.

7.3 Materials for packaging:

- suitable : synthetic material, glass, stoneware/porcelain
- to avoid : aluminium, copper, zinc, steel



8. Exposure controls/Personal protection

8.1 Recommended engineering controls:

Measure the concentration in the air regularly
 Work under local exhaust/ventilation

Sampling methods: No data available

8.2 Exposure limits:

: not listed

8.3 Personal protection:

eye protection:

- Face shield In case of dust production: protective goggles

hand protection:

- Gloves

skin protection:

- Corrosionproof clothing - In case of dust production: head/neck protection

materials for protective clothing:

- No data available

respiratory protection:

On heating: gas mask with filter type B
 Dust production: dust mask with filter type P3

Physical and chemical properties

9.1	Appearance (at 20°C)	:	Solid / Scales	
9.2	Odour	:	Repulsive	
9.3	Colour		Yellow	
9.4	pH value	:	13 (10 g/l)	
9.5	Boiling point/boiling range	:	160/170	°C
9.6	Melting point/melting range	:	85	°C
9.7	Flashpoint		N.D.	°C
9.8	Auto-ignition point	:	480	*C
9.9	Explosion limits	:	N.D.	vol% (°C)
	Vapour pressure (at 20°C)	:	N.D.	hPa
9.11	Relative density (at 20°C)	:	1.5	
9.12		°C) :	16 61	g/100 ml g/100 ml (Na ₂ S 100%)
9.13	Soluble in	:	N.D.	FIGHERICA STR. FLYSS
9.14	Relative vapour density	:	N.D.	
9.15	Saturation concentration	:	and the same of th	g/m³
9.16	Viscosity	:	N.D.	SIMPLE IN
			5um	इस्मार्थाय भागा



10. Stability and reactivity

10.1 Stability:
- Unstable on exposure to air

10.2 Reactivity/Hazardous decomposition products:

 Decomposes on exposure to temperature rise: release of toxic/combustible gases/vapours (hydrogen sulphide, sulphur dioxide)
 Reacts with (some) acids: release of toxic/combustible gases/vapours (hydrogen sulphide, sulphur dioxide)
 Reacts with (strong) oxidizers: release of toxic/combustible gases/vapours (hydrogen sulphide, sulphur dioxide)

10.3 Conditions/materials to avoid:
 - Heat sources, acids, oxidizing agents, metals

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat LD50 dermal rat LD50 dermal rabbit LC50 inhalation rat : N.D. : N.D. : N.D. : N.D. mg/kg mg/kg mg/kg mg/l/4 h

11.2 Chronic toxicity:

EC carc. cat.: not listed EC muta. cat.: not listed EC repr. cat.: not listed Carcinogenicity (TLV): not listed IARC classification: not listed

11.3 Routes of exposure: ingestion, inhalation, eye and skin contact

11.4 Acute effects/symptoms:
- Corrosive to the skin
- Corrosive to the eyes

AFTER INHALATION OF DUST:

- Dry/sore throat
- Coughing
FOLLOWING SYMPTOMS MAY APPEAR LATER:
- Risk of lung oedema
AFTER CONTACT WITH WATER:
- Irritation of the respiratory tract
- Irritation of the nasal mucous membranes

Runny nose Headache

Nausea Vomiting Dizziness

- Disturbances of consciousness - Respiratory difficulties

AFTER INGESTION:
- Burns to the gastric/intestinal mucosa
- Symptoms similar to those listed under inhalation

AFTER SKIN CONTACT:
- Caustic burns/corrosion of the skin

AFTER EYE CONTACT:
- Corrosion of the eye tissue
- Permanent eye damage
- Lacrimation
- Redness of the eye tissue

Visual disturbances

11.5 Chronic effects: ON CONTINUOUS EXPOSURE/CONTACT: Impaired memory Paralysis

- Impairment of the nervous system ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: - Skin rash/inflammation





Ecological information

12.1 Mobility:

- Soluble in water

12.2 Biodegradation:

- soil: T ½ BOD₅ COD days g \tilde{O}_2/g substance g O_2/g substance

- Biodegradable in water - test: 22%, 5 d., BOD - water:

12.3 Bioaccumulation: - log Pow : N.D. - BCF : N.D.

12.4 Aquatic toxicity:

- LC50 (96 h): 0.0243 mg/l (PIMEPHALES PROMELAS)
- EC50 (48 h): 2.1 mg/l (DAPHNIA MAGNA)
- EC50 : 0.86 mg/l (ALGAE)

12.5 Other information:

- WGK: 2
- Effect on the ozone layer : N.D.
- Waste water purification : N.D.

13. Waste disposal considerations

13.1 Provisions relating to waste:

- Waste code (EC): 06 03 03 - Hazardous waste (91/689/EC)

13.2 Disposal methods:

- Landfill or incinerate at an approved site in accordance with national and local regulations
 Neutralize
- Precipitate/make insoluble Remove to an authorized dump



Transport information

80 1849

- 14.1 Proper shipping name: UN 1849, Sodium sulphide, hydrated
- 14.2 Transport by road/rail (ADR/RID): class 8, 45b)1
 Danger code: 80
 Danger labels on tanks: 8 on packages: 8
- 14.3 Substance identification number (UN number): 1849 Packing: II
- 14.4 Maritime transport (IMDG code): class 8 p. 8227 EMS : 8-08 MFAG : 225 Marine pollutant:
- 14.5 Inland navigation (ADNR): class 8, 45b)1
- 14.6 Air freight (ICAO): class 8
 Instruction "passenger": 814/Y814
 Instruction "cargo": 816
- 14.7 Other information: -

Regulatory information

Labelling in accordance with EC directives 67/548/EEC and 1999/45/EEC



R31



Corrosive

Dangerous for the

Contact with acids liberates toxic gases

Causes burns Very toxic to aquatic organisms R34 R50

S(01/02)

(Keep locked up and out of reach of children)
In case of contact with eyes, rinse immediately with plenty
of water and seek medical advice
In case of accident or if you feel unwell, seek medical
advice (show the label where possible)
Avoid release to the environment. Refer to special
instructions/safety data sheets. S26

S45

S61

Other information

The information provided on this MSDS 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 as 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 material or in any process, unless specified in the text. รมาการทหารไทย ทำกัก เมพน

N.A. = NOT APPLICABLE

N.D. = NOT DETERMINED

* = INTERNAL CLASSIFICATION

TLV : Threshold Limit Value - ACGIH USA 1999

MSDS established Reference number Reason for revision

24-02-2000 : BIG\30126GB

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