

WST-P88

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

1. SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Family / Chemical Name	Sodium hydrosulfide solution
CAS No.	16721-80-5
Trade Name	WST-P88
Product Code	None

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Precipitant
Uses Advised Against	None
Company Identification	WATER SPECIALISTS ENVIRONMENTAL TECHNOLOGIES LLC 1515 Kastner Place Sanford, FL 32771 USA
Telephone	(407) 321-7910
Fax	(407) 321-3098
E-mail	info@WaterSpecialists.biz

Emergency telephone number

Emergency Phone No.

Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

2. SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Met. Corr. 1; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1

Label elements

Hazard Symbol



DANGER

Signal Word(s)

Hazard Statement(s)

Toxic if swallowed.
Causes severe skin burns and eye damage.
May be corrosive to metals.

Do not breathe mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wash hands and exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep only in original container.

IF ON SKIN: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER/doctor. Treat symptomatically. Contaminated clothing should be laundered before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is laboured, administer oxygen. Call a

Precautionary Statement(s)

POISON CENTER/doctor if you feel unwell. Treat symptomatically.

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Treat symptomatically.

Store locked up.

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Other hazards

Very toxic to aquatic life. Contact with acids liberates very toxic gas: hydrogen sulfide (H₂S).

Additional Information

None

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.	CAS No.
Sodium hydrosulfide	Trade Secret	16721-80-5

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.:

- The exact composition is being withheld as Trade Secret in accordance with OSHA 29 CFR 1910.1200.

4. SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is laboured, administer oxygen. Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically.

Skin Contact

Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER/doctor. Treat symptomatically. Contaminated clothing should be laundered before reuse.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

Ingestion

Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media

Non-combustible / Non-flammable. As appropriate for surrounding fire.

-Unsuitable Extinguishing Media

As appropriate for surrounding fire.



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Special hazards arising from the substance or mixture

None known.

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Put on protective equipment before entering danger area. Wear protective gloves/protective clothing/eye protection/face protection.

Environmental precautions

Do not allow to enter drains, sewers or watercourses.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference to other sections

None

Additional Information

None

7. SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Wear protective gloves/protective clothing/eye protection/face protection. Do not mix with acid. Wash hands and exposed skin thoroughly after handling. Do not breathe mist/vapours/spray.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Ambient temperatures. Keep only in the original container.

-Incompatible materials

Contact with acids liberates very toxic gas: Hydrogen sulfide (H₂S). May be corrosive to metals. Keep only in original container.

Specific end use(s)

Precipitant

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		STEL		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Hydrogen sulfide	7783-06-4	-----	1 ppm	20 ppm (ceiling) 50 ppm (peak)*	5 ppm	-----

*10 mins. once, only if no other measurable exposure occurs.

Recommended monitoring method

Electrochemical sensor (H₂S)

Exposure controls

Appropriate engineering controls

Ensure that the eye flushing systems and safety showers are located close to the working place.

Personal protection equipment

Eye/face protection

Wear goggles giving complete eye protection. Full face shield.



Skin protection (Hand protection/ Other)



Gloves (Neoprene or Natural rubber). Chemical protection suit. Wear safety or chemical resistant shoes or boots. Check with protective equipment manufacturer's data.

Respiratory protection



Normally no personal respiratory protection is necessary.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Collect all precipitate. Disposal should be in accordance with local, state or national legislation.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color.	Yellow / Green
Odor	Sulphur odour.
Odor Threshold (ppm)	Not available
pH (Value)	11.5 - 13
Melting Point (°C) / Freezing Point (°C)	ca. 0 (32 °F)
Boiling point/boiling range (°C):	122 - 132 (253 - 269 °F)
Flash Point (°C)	Non-combustible / Non-flammable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapour pressure (Pascal)	2.26 kPa @ 20 °C.
Vapour Density (Air=1)	Not applicable
Density (g/ml)	1.18 - 1.28 (9.82 – 10.62 lb/gal)
Solubility (Water)	Miscible
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Non-combustible / Non-flammable
Decomposition Temperature (°C)	Not available
Kinematic Viscosity	< 20.5 cSt @ 40 °C.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available

10. SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None known
Conditions to avoid	Incompatible materials
Incompatible materials	Acids
Hazardous decomposition product(s)	None known

11. SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Skin Contact, Eye Contact

Acute toxicity	LD50 (oral) mg/kg: 187 (rat)
Irritation/Corrosivity	Causes severe skin burns and eye damage.

Sensitization Not to be expected.
Repeated dose toxicity Not to be expected.
Carcinogenicity No data. It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity Not to be expected.
Toxicity for reproduction Not to be expected.

12. SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Short term Very toxic to aquatic life.
 Long Term Not to be expected.

Persistence and degradability Not persistent
Bioaccumulative potential The product has no potential for bioaccumulation.
Mobility in soil Not available.
Results of PBT and vPvB assessment Not classified as PBT or vPvB.
Other adverse effects None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

14. SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	UN 2949	UN 2949	UN 2949
Proper Shipping Name	Sodium hydrosulfide soln.	Sodium hydrosulfide soln.	Sodium hydrosulfide soln.
Transport hazard class(es)	8	8	8
Packing group	II	II	II
Environmental hazards	Yes. (RQ Substance)	Yes.	Yes.
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

15. SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed and active, or exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Sodium hydrosulfide	16721-80-5	40 - 50	5000

SARA 311/312 - Hazard Categories: Refer to SECTION 2 - HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

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SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None	----	----

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: March 2, 2023

Revision: September 12, 2024

Additional Information: None

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