Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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1 Identification
· Product identifier
· Trade name: <u>Sulfide Standard, 1000ppm</u> · Product code: SS8818SS
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291
Emergency telephone number: ChemTel Inc. (800) 255-3924 (North America) (801) 1 (813)248-0585 (International)
2 Hazard(s) identification
 Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: GHS05
 Signal word: Danger Hazard statements: H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. Precautionary statements: P234 Keep only in original container. P260 De net brancthe mist/wapera/apreu/

Do not breathe mist/vapors/spray. P260 P264

Wash thoroughly after handling.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	BIF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment - See Section 4 of this Safety Data Sheet.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Componer	nts:	
1310-73-2	Sodium hydroxide	8.64%
	🚸 Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
	sodium salicylate	8.00%
	1 Acute Tox. 4, H302; Eye Irrit. 2A, H319	
134-03-2	sodium ascorbate	2.92%
	disodium sulphide	0.50%
	Acute Tox. 3, H311 Skin Corr. 1B, H314	
	💫 Skin Corr. 1B, H314	
	🚯 Acute Tox. 4, H302	
7732-18-5	Water	79.94%

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate help for blistering or open wounds.

· After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for 15 to 20 minutes under running water. Then consult a doctor.

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· After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; immediately call for medical help.	
Most important symptoms and effects, both acute and delayed:	
Strong caustic effect on skin and mucous membranes.	
Danger of severe eye injury.	
Gastric or intestinal disorders when ingested. Danger:	
Danger of gastric perforation.	
Causes serious eye damage.	
 Indication of any immediate medical attention and special treatment ne 	eeded:
Medical supervision for at least 48 hours.	
If medical advice is needed, have product container or label at hand.	
5 Fire-fighting measures	
Extinguishing media	
• Suitable extinguishing agents: Use fire fighting measures that suit the environment	
For safety reasons unsuitable extinguishing agents: No relevant information	ation available.
Special hazards arising from the substance or mixture	
Formation of toxic gases is possible during heating or in case of fire.	
Advice for firefighters	
Protective equipment:	
Wear self-contained respiratory protective device.	
Wear fully protective suit.	
6 Accidental release measures	
[·] Personal precautions, protective equipment and emergency pro	ocedures
Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation.	
Particular danger of slipping on leaked/spilled product.	
Environmental precautions	
Do not allow to enter sewers/ surface or ground water.	
Prevent from spreading (e.g. by damming-in or oil barriers).	
• Methods and material for containment and cleaning up	
Use inert material (clay, sawdust, kaolin) to absorb material and sweep up.	. Prevent spilled material fro
entering sewers, drains, bodies of water.	•
Rinse remainder away with copious quantities of water.	
Send for recovery or disposal in suitable receptacles.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
7 Lloudling and store to	
7 Handling and storage	(Cont'd. on page

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Use only in well	
 Requirements Store only in the Unsuitable mate Unsuitable Store away from Do not store tog Store away from Further inform 	
8 Exposure co	ontrols/personal protection
	neters /ith limit values that require monitoring at the workplace:
recommended e	constituent is the only constituent of the product which has a PEL, TLV or other
recommended e	constituent is the only constituent of the product which has a PEL, TLV or other exposure limit. um hydroxide
recommended e 1310-73-2 Sodi PEL (USA) REL (USA) TLV (USA) EL (Canada) EV (Canada)	constituent is the only constituent of the product which has a PEL, TLV or other exposure limit.

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Protective gloves

· Material of gloves

A recommendation for a suitable glove material is not available. Testing will be required to determine the suitability of any potential glove materials.

· Eye protection:

Contact lenses should not be worn.



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Alkaline resistant protective clothing

· Limitation and supervision of exposure into the environment

No relevant information available.

· Risk management measures No relevant information available.

9 Physical and chemical properties		
[·] Information on basic physical a	nd chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Colorless	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value at 20 °C (68 °F):	<1	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
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Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octano	/water): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	
Stability and reactivity		
· · ·	ation available	
Reactivity: No relevant informa	r normal temperatures and pressures.	
Thermal decomposition / cond		
No decomposition if used and st		
Possibility of hazardous rea		
Strong exothermic reaction with		
Corrosive action on metals.		
	tanage, generating best and seen/detergent substances	
The acts with certain organic subs	tances, generating heat and soap/detergent substances.	
Conditions to avoid No relev		
Conditions to avoid No relev		
Conditions to avoid No relev Incompatible materials		
Conditions to avoid No relevent Incompatible materials Metals. Acids. Organic materials	ant information available.	
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Conditions to avoid No relevent Incompatible materials Metals. Acids. Organic materials Hazardous decomposition punder fire conditions only:	ant information available.	
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Conditions to avoid No relev Incompatible materials Metals. Acids. Organic materials Hazardous decomposition p Under fire conditions only: Metal oxide smoke. Carbon monoxide and carbon did Sulfur oxides (SOx) Toxicological information	ant information available. products pxide n l effects	
Conditions to avoid No relev Incompatible materials Metals. Acids. Organic materials Hazardous decomposition p Under fire conditions only: Metal oxide smoke. Carbon monoxide and carbon did Sulfur oxides (SOx) Toxicological information	ant information available. products pxide I effects ple data, the classification criteria are not met.	

Dermal LD50 60000 mg/kg (Acute Toxicity Estimate)

54-21-7 sodium salicylateOralLD501200 mg/kg (rat)

Primary irritant effect:

• On the skin: Strong caustic effect on skin and mucous membranes.

· On the eye: Strong caustic effect.

• Sensitization: Based on available data, the classification criteria are not met.

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· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): Causes severe skin burns and eye damage.
- · Repeated dose toxicity: No relevant information available.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Other adverse effects No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

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· Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, ADR/RID/ADN, IMDG, IATA	UN1824
UN proper shipping name DOT ADR/RID/ADN, IMDG, IATA	Sodium hydroxide solution SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	
DOT	
CORRESPONDE 1	
Class	8
ADR/RID/ADN	8
Class Label	8 (C1) 8
IMDG, IATA	
Class Label	8 8
Packing group DOT, ADR/RID/ADN, IMDG, IATA	II
Environmental hazards	Not applicable.
Special precautions for user Hazard identification number (Kemler cod EMS Number: Segregation groups	Warning: Corrosive substances e): 80 F-A,S-B Alkalis
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	ll of

15 Regulatory information

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	Safety, health and environmental regulations/legislation specific for the substance mixture United States (USA) SARA
•	Section 302 (extremely hazardous substances):
	None of the ingredients are listed.
•	Section 313 (Specific toxic chemical listings):
	None of the ingredients are listed.
•	TSCA (Toxic Substances Control Act)
	All ingredients are listed or exempt.
	Proposition 65 (California)
	Chemicals known to cause cancer:
	None of the ingredients are listed.
•	Chemicals known to cause developmental toxicity for females:
	None of the ingredients are listed.
	Chemicals known to cause developmental toxicity for males:
	None of the ingredients are listed.
	Chemicals known to cause developmental toxicity:
	None of the ingredients are listed.
•	EPA (Environmental Protection Agency):
	None of the ingredients are listed.
•	IARC (International Agency for Research on Cancer):
	None of the ingredients are listed.
	Canadian Domestic Substances List (DSL):
	All ingredients listed on DSL or NDSL.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 2A

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Sources
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers