

## 1. IDENTIFICATION

**Product identifier** **Product Name** Sulfide Standard

**Other means of identification**

**Product Code** QCI-086, PEI-086  
**UN/ID no.** 1824  
**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** For Laboratory Use Only.  
**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

NSI Lab Solutions, Inc.  
 7212 ACC Blvd.  
 Raleigh, NC 27617

**Emergency telephone number**

**Company Phone Number** 800-234-7837

**Number**

**FAX** 919-789-3019

**Website** www.nsilabsolutions.com

**E-mail address** nsi@nsilabsolutions.com

**Emergency Telephone** 919-349-7322

**Telephone**

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered by the 2012 OSHA Hazard d (29 CFR hazardous Communication Standar 1910.1200)


Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

**Label elements**

**Emergency Overview**

**Danger**

**Hazard statements**  
 H314: Causes severe skin burns and eye damage



**Appearance** No information available      **Physical state** Liquid      **Odor** No information available

**Precautionary Statements - Prevention**

Do not breathe dusts or mists  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor  
 Specific treatment (see supplemental first aid on this label).  
 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  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a POISON CENTER or doctor  
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)** Not applicable

**Other Information**

H412: Harmful to aquatic life with long lasting effects H401: Toxic to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS No.	Weight-%
Water	7732-18-5	88.06
Buffer Component	Proprietary	6.4
Sodium sulfide	1313-82-2	2.5
Buffer Component	Proprietary	1.6



**Incompatible materials** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Water 773218-5	-	-	-
Buffer Component	-	-	-
Sodium sulfide 131382-2	-	-	-
Buffer Component	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

Buffer Component	-	-	-
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**Appropriate engineering controls**

**Engineering Controls** Showers  
Eyewash stations Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** No special technical protective measures are necessary.

**Skin and body protection** No special technical protective measures are necessary.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state** Liquid

**Appearance Color**

**Property pH**

**Melting point / freezing point**

**Boiling point / boiling range**

**Flash point**

**Evaporation rate**

**Flammability (solid, gas)**

**Flammability Limit in Air**

Upper flammability limit: Lower flammability limit:

**Vapor pressure**

**Vapor density**

**Relative density**

**Water solubility**

**Solubility in other solvents**

**Partition coefficient**

**Autoignition temperature**

**Decomposition temperature**

**Kinematic viscosity**

**Dynamic viscosity**

	No information available	available	No information available
<b>Oxidizing properties</b>	No information available	available	No information available
No information available No information available	<b>Odor</b> <b>Odor threshold</b>	No information available No information available	No information available No information available
<b>Values</b>	<u>Remarks • Method</u>		
No information available No information available No information available No information available No information available No information available			No information available No information available No information available No information available No information available No information available
<b>Explosive properties</b>			
<b>Other Information</b>			
<b>Softening point</b>	No information available		
<b>Molecular weight</b>	No information available	available	
<b>VOC Content (%)</b>	No information available	available	
<b>Density</b>	No information available	available	
<b>Bulk density</b>	No information available	available	

**10. STABILITY AND REACTIVITY**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information** No data available

No

**Inhalation**

data available.  
No

**Eye contact**

data available.

**Skin contact**

No

data  
available.  
No

data  
available.

**Ingestion**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
Buffer Component	= 930 mg/kg ( Rat )	-	-
Sodium sulfide 1313- 822	= 208 mg/kg ( Rat )	< 340 mg/kg ( Rabbit )	-
Buffer Component	-	= 1350 mg/kg ( Rabbit )	-
Buffer Component	= 11900 mg/kg ( Rat )	-	-

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 8,331.00

**ATEmix (dermal)** 11,702.00

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

1.44 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Water 773218-5	-	-	-
Buffer Component	-	1270 - 1470: 96 h Pimephales promelas mg/L LC50 flow-through	-
Sodium sulfide 131382-2	-	7.7 - 29.1: 96 h Poecilia reticulata mg/L LC50	2.1: 48 h Daphnia magna mg/L EC50
Buffer Component	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-
Buffer Component	-	-	-

**Persistence and degradability**

No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.  
Do not reuse container.

**Contaminated packaging**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Water 773218-5	-	-	-	-
Buffer Component	-	-	-	-
Sodium sulfide 1313-82-2	-	-	-	-
Buffer Component	-	-	-	-
Buffer Component	-	-	-	-

Chemical Name	California Hazardous Waste Status
Water 7732-18-5	-
Buffer Component	-
Sodium sulfide 1313-82-2	-
Buffer Component	Toxic Corrosive
Buffer Component	-

**14. TRANSPORT INFORMATION**

**DOT**

UN/ID no. 1824  
Proper shipping name

Sodium hydroxide solution

**Hazard Class** 8  
**Packing Group** II

**IATA**

**UN/ID no.** 1824  
**Proper shipping name** Sodium hydroxide solution  
**Hazard Class** 8  
**Packing Group** II

**IMDG**

**UN/ID no.** 1824  
**Proper shipping name** Sodium hydroxide solution  
**Hazard Class** 8  
**Packing Group** II

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Complies  
**AICS** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS**  
 - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

**Acute health hazard** No  
**Chronic Health Hazard** No  
**Fire hazard** No  
**Sudden release of pressure hazard** No  
**Reactive Hazard** No

**CWA (Clean Water Act)**

This product, as supplied, does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive



Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water 773218-5	-	-	X
Buffer Component	-	-	-
Sodium sulfide 131382-2	X	X	-
Buffer Component	X	X	X
Buffer Component	-	-	-

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

	NFPA Physical and Chemical	Health hazards 1	Flammability 0	Instability 0
<b>HMIS</b>		Health hazards 1	Flammability 0	Physical hazards 0
				Properties - Personal protection X

**Issue Date** 29-May-2020

**Revision Date** 29-May-2020

**Revision Note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet 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 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**