



SAFETY DATA SHEET

Preparation Date: No data available Revision Date: 02/19/2015 Revision Number: G1

Product identifier

Product code: S1465

Product Name: SODIUM SULFIDE, NONAHYDRATE, CRYSTAL, REAGENT, ACS

Other means of identification

Synonyms: Sodium monosulfide, nonahydrate; Sodium sulphide, nonahydrate

CAS #: 1313-84-4
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 1Sub-category B
Specific target organ toxicity (single exposure)	Category 3
Corrosive to metals	Category 1

Label elements

Product code: S1465

Danger

Hazard statements

Toxic if swallowed
Toxic in contact with skin
Causes severe skin burns and eye damage
May cause respiratory irritation
May be corrosive to metals



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Contact with acid liberates poisonous gas

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Keep only in original container

Precautionary Statements - Response

Specific treatment (see .? on this label) Immediately call a POISON CENTER or doctor/physician Specific treatment (see .? on this label)

Absorb spillage to prevent material damage

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/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Do NOT induce vomiting

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Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant/ .? container with a resistant inner liner

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Sodium Sulfide, Nonahydrate	1313-84-4	100	*
1313-84-4			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for

at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately. Toxic in contact with skin.

Eye Contact: Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician

immediately.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth

resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device. Immediate medical attention is required.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Call a physician or Poison Control Center immediately. Toxic if

swallowed.

Most important symptoms and effects, both acute and delayed

Symptoms Causes skin and eye burns. Eye contact may result in redness or pain. Toxic in contact with

skin. Skin contact may result in redness, pain, inflammation, itching, scaling. Toxic if

swallowed. May cause irritation of respiratory tract.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

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Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Metallic oxides

Specific hazards: May be combustible at high temperatures

Spontaneously flammable upon drying

When heated to decomposition it emits toxic fumes

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Keep people away from and upwind of spill/leak. Do not get water inside containers. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapours/dust. Never add water to this product. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Sensitive to light. Store in light-resistant containers. May corrode metallic surfaces. Do not store in uncoated metallic containers. Deliquescent.

Incompatible Materials:

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Acids. Metals. Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Sodium Sulfide, Nonahydrate	None	None	None	None
1313-84-4				

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Sodium Sulfide, Nonahydrate	None	None	None	None
1313-84-4				

Australia and Mexico

Components	Australia	Mexico
Sodium Sulfide, Nonahydrate	None	None
1313-84-4		

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

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Eye protection: Safety glasses Safety glasses with side-shields

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Wear respirator with dust filter.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state:Appearance:Color:Solid.Crystals.Yellow.

Odor: Taste Molecular/Formula weight:

Rotten-egg like. No information available 240.18

Formula:Flammability:Flash point (°C):Na2S•9H2ONo information availableNo data available

Flashpoint (°C/°F): Flash Point Tested according to: Lower Explosion Limit (%): No information available. Not available

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

Autoignition Temperature (°C/°F):

No information available No information available No information available

Bulk density: Specific gravity: Vapor pressure @ 20°C (kPa):

No information available 1.427 No information available

Density (g/cm3): Evaporation rate: Vapor density:

No information available
No information available
No information available

VOC content (g/L):Odor threshold (ppm):Partition coefficientNo information availableNo information available(n-octanol/water):

No information available

:Ha

Viscosity: Miscibility: Solubility:

Insoluble in diethyl ether

Solubility in Water: 1800 g/L @ 25 °C

10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids
Reactive with metals

Reactive with oxidizing agents

Upper Explosion Limit (%):

Contact with acids liberates very toxic gas

Chemical stability

Stability: Sensitive to light. Exposure to light accelerates decomposition. Stable at normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials. Exposure to light. Exposure to

moisture.

Incompatible Materials: Acids. Metals. Oxidizing agents.

Hazardous decomposition products: Hydrogen Sulfide. Sodium oxides.

Other Information

Corrosivity: Corrodes on contact with metals

Special Remarks on Corrosivity: No information available

Product code: S1465 Product name: SODIUM SULFIDE,

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Eyes. Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

Sodium Sulfide, Nonahydrate - 1313-84-4

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: S1465

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Toxic in contact with skin. Contact causes severe skin irritation and possible burns.

Eye Contact: Causes serious eye irritation. Causes eye burns.

Inhalation May cause irritation of respiratory tract.

Ingestion Toxic if swallowed.

Aspiration hazard No information available

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

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Sodium Sulfide,	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Nonahydrate						

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:
No information available
No information available
No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure

Target Organs:

No information available No information available No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Product code: S1465

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Sulfide, Nonahydrate	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1849

Proper Shipping Name: Sodium sulfide, hydrated

Hazard Class:

Subsidiary Risk:

Packing Group: II ERG No: 153

Marine Pollutant No data available DOT RQ (lbs): No information available

Symbol(s):

TDG (Canada)

UN-No: UN1849

Proper Shipping Name: Sodium sulfide, hydrated

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description: No information available

ADR

UN-No: UN1849

Proper Shipping Name: Sodium sulphide, hydrated

Hazard Class: 8
Packing Group: ||

Subsidiary Risk:
Classification Code:
Description:
No information available
No information available
No information available
No information available

IMO / IMDG

UN-No: UN1849

Proper Shipping Name: Sodium sulphide, hydrated

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description:

IMDG Page:

No information available

No information available

No information available

EMS: F-A

MFAG: No information available Maximum Quantity: No information available

RID

UN-No: UN1849

Proper Shipping Name: Sodium sulphide, hydrated

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Product code: S1465

14. TRANSPORT INFORMATION

Classification Code: No information available Description: No information available

ICAO

UN-No: UN1849

Proper Shipping Name: Sodium sulphide, hydrated

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description: No information available

IATA

UN-No: UN1849

Proper Shipping Name: Sodium sulphide, hydrated

Hazard Class:

Subsidiary Risk: No information available

Packing Group: II ERG Code: 8L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	CHINA	Australia	EINECS-No.
			(PICCS)			(AICS)	
Sodium Sulfide, Nonahydrate	Not Listed	Not present	Present	Not present	Not present	Present	Not present

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
Sodium Sulfide, Nonahydrate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

•	CERCLA - Hazardous Substances and their Reportable Quantities	Hazardous	Hazardous	Chemical Category	Section 313 - Reporting de minimis
Sodium Sulfide, Nonahydrate	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Sulfide, Nonahydrate	Not Applicable	Not Applicable

Product code: S1465

Product name: SODIUM SULFIDE,
NONAHYDRATE, CRYSTAL,
REAGENT, ACS

Canada

WHMIS hazard class:

D1B Toxic materials E Corrosive material

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Sodium Sulfide, Nonahydrate	Not Listed	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
Sodium Sulfide, Nonahydrate	Not listed	Not listed	

EU Classification

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.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 - Wear suitable protective clothing.

S37 - Wear suitable gloves.

S39 - Wear eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Components	Classification	Concentration Limits:	Safety Phrases
Sodium Sulfide, Nonahydrate		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Product code: S1465

C - Corrosive.

T - Toxic

16. OTHER INFORMATION

Revision Date: 02/19/2015
Prepared by: Sonia Owen

Disclaimer:

Product code: S1465

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet