SAFETY DATA SHEET



Revision date: 06-Feb-2025

Revision Number 1

Section 1: Identification

Product identifier

Product Name SODIUM HYDROSULPHIDE 29.4% w/w SOLUTION

Product Code(s) 000000054741

Other means of identification

UN number or ID number 3266

Recommended use of the chemical and restrictions on use

Recommended use Mining chemical.

Uses advised againstNo information available.

Details of manufacturer or importer

Supplier

IXOM Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000 Australia

Telephone Number: +61 3 9906 3000

Emergency telephone number

Emergency telephone number 1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

Section 2: Hazard identification

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS). Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

GHS Classification

Corrosive to metals	Category 1
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Acute aquatic toxicity	Category 1

Label elements

Corrosion
Exclamation mark
Environment

Revision Number 1



Signal word DANGER

Hazard statements

H290 - May be corrosive to metals

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H400 - Very toxic to aquatic life

Precautionary Statements - Prevention

Keep only in original packaging.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/clothing and eye/face protection.

Avoid release to the environment.

Precautionary Statements - Response

Specific treatment (see First aid on this SDS).

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 person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Absorb spillage to prevent material damage.

Collect spillage.

Precautionary Statements - Storage

Store locked up.

Store in corrosion resistant container with a resistant inner liner.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Other hazards which do not result in classification

Contact with acids liberates toxic gas.

Section 3: Composition and information on ingredients

Chemical name	CAS No.	Weight-%	
Sodium hydrosulfide	16721-80-5	29.4	
Non hazardous component(s)	-	to 100	

Section 4: First aid measures

Description of first aid measures

General advice For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

Inhalation Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If

breathing has stopped, give artificial respiration. Get medical attention immediately.

Revision Number 1

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin Skin contact

with water/shower. Immediately call a POISON CENTER or doctor/physician.

Rinse mouth thoroughly with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Ingestion

Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Irritation/Corrosion. May cause redness and tearing of the eyes. Erythema (skin redness).

Burning.

Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Can cause corneal burns. Note to physicians

Section 5: Firefighting measures

Suitable Extinguishing Media

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Contact with acids may release hydrogen sulfide, a toxic and flammable gas that may form explosive

mixtures in air. Environmentally hazardous.

Special protective actions for fire-fighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

Hazchem code 2X

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Avoid contact with skin and eyes. Do not breathe vapor

or mist. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Use personal protective equipment as required. Wash thoroughly after handling. Do not eat,

drink or smoke when using this product.

Use personal protection recommended in Section 8. For emergency responders

Revision Number 1

Environmental precautions

Environmental precautions Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

For residues, preferably oxidize with a weak 3-5% hydrogen peroxide solution to stop

release of hydrogen sulphide.

Section 7: Handling and storage

Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Do not breathe vapor or mist. Do not eat, drink or smoke

when using this product. Use personal protection equipment. Wash thoroughly after

handling. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container

closed when not in use.

Incompatible materials Acids. Metals. Diazonium salts. Aluminum. Copper. Zinc.

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits No value assigned for this specific material by Safe Work Australia.

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.



Eye/face protection

Tight sealing safety goggles. If splashes are likely to occur:. Face protection shield.

Revision date: 06-Feb-2025 **SOLUTION**

Skin and body protection Boots. Apron. Overalls.

Hand protection Elbow-length impervious gloves.

Respiratory protection If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator

meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Revision Number 1

Environmental exposure controls No information available.

Thermal hazards No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance No information available Color Yellow to Green Odor Hydrogen sulfide No information available **Odor threshold**

Property Values Remarks • Method

12-13 None known Hq pH (as aqueous solution) No data available None known Melting point / freezing point ca. 7°C (Crystallisation point) None known ca. 122°C (1 bar) Boiling point / boiling range None known Flash point Not applicable None known No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive Not applicable

limits

Lower flammability or explosive Not applicable

limits

No data available Vapor pressure None known No data available None known Vapor density Relative density 1.268-1.282 at 20°C None known Water solubility Miscible None known Solubility(ies) No data available None known No data available Partition coefficient None known **Autoignition temperature** Not applicable None known **Decomposition temperature** No data available None known No data available None known Kinematic viscosity Dynamic viscosity No data available None known

Other information

Section 10: Stability and reactivity

Reactivity

Reactivity Contact with acids liberates toxic gas. Corrosive to metals.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

Possibility of hazardous reactions

Possibility of hazardous reactions Contact with acids liberates toxic gas.

Conditions to avoid

Conditions to avoid Heat.

Incompatible materials

Incompatible materials Acids. Metals. Diazonium salts. Aluminum. Copper. Zinc.

Hazardous decomposition products

Hazardous decomposition products Hydrogen sulfide. Oxides of sulfur. Sodium oxides.

Section 11: Toxicological information

Information on likely routes of exposure

Product Information No adverse health effects expected if the chemical is handled in accordance with this Safety

Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is

Revision Number 1

mishandled and overexposure occurs are:

Inhalation May cause irritation.

Causes serious eye damage. Eye contact

Causes severe burns. Skin contact

Ingestion Can burn mouth, throat, and stomach.

Symptoms Irritation/Corrosion. May cause redness and tearing of the eyes. Erythema (skin redness).

Burning.

Acute toxicity .

Numerical measures of toxicity - Product Information

No information available

Component Information

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Γ	Sodium hydrosulfide	= 96-215 mg/kg (Rat)	-	= 1500 mg/m ³ (Rat) 14 min

See section 16 for terms and abbreviations

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

Skin corrosion/irritation Causes severe burns. Classification is based on mixture calculation methods based on

component data.

Causes serious eye damage. Classification is based on mixture calculation methods based Serious eye damage/eye irritation

Revision date: 06-Feb-2025 **SOLUTION**

Revision Number 1

on component data.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

(OSHA - Occupational Safety and Health Administration) (IARC - International Agency for Research on Cancer)

(NTP - National Toxicology Program).

Reproductive toxicity No information available.

STOT - single exposure No information available.

No information available. STOT - repeated exposure

Aspiration hazard No information available.

Section 12: Ecological information

Ecotoxicity

Aquatic ecotoxicity Very toxic to aquatic life. Keep out of waterways.

There is no data for this product. Terrestrial ecotoxicity

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name		Partition coefficient	
	Sodium hydrosulfide	-3.5	

Mobility

No information available. Mobility

Other adverse effects

Other adverse effects No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Refer to Waste Management Authority. Dispose of material through a licensed waste

Revision Number 1

contractor.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

3266

See section 8 for more information

Section 14: Transport information

ADG Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code

(ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN number or ID number

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM Proper shipping name

HYDROSULPHIDE)

Transport hazard class(es)

Packing group Ш Hazchem code 2X

Classified as Dangerous Goods by the criteria of the International Air Transport Association IATA

(IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN number

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM **UN proper shipping name**

HYDROSULPHIDE)

Transport hazard class(es)

IMDG

Packing group

8 Ш

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN number

UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM

HYDROSULPHIDE)

Transport hazard class(es) 8 Packing group Ш **IMDG EMS Fire** F-A **IMDG EMS Spill** S-B Marine pollutant

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

Section 15: Regulatory information

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

National regulations

Page 8/11

Revision Number 1

Australia

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS). Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

Poison Schedule Number Not applicable

Australian Industrial Chemicals Introduction Scheme (AICIS)

Contact supplier for inventory compliance status

	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Sodium hydrosulfide - 16721-80-5	Present	-
Non hazardous component(s)	-	-

Illicit Drug Precursors/Reagents

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

International Inventories

All the constituents of this material are listed on the Australian Inventory of Industrial

Chemicals.

Contact supplier for inventory compliance status. **NZIoC** Contact supplier for inventory compliance status. **TSCA** DSL/NDSL Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status.

Legend:

AIIC- Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

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 Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

Revision Number 1

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Section 16: Other information

First Issue Primary SDS Reason(s) For Issue:

This Safety Data Sheet has been prepared by IXOM Operations Pty Ltd (Toxicology and **Prepared By**

SDS Services).

Revision date: 06-Feb-2025

Revision Note:

The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL

Maximum limit value Ceiling Skin designation

Carcinogen

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Disclaimer

Revision Number 1

Revision date: 06-Feb-2025

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since IXOM Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their IXOM representative or IXOM Operations Pty Ltd at the contact details on page 1.

IXOM Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet