Material Safety Data Sheet

Sodium Sulphide Solution (RXSOL-40-1622-250)

1. Product and Company Identifaction

Porduct Name	Sodium sulfide
Part Number	RXSOL- 40-1622-250

Company Details:....

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone	+91 22 20871200 - 1400
Fax	+91 22 27612100 :::AOH :0091 9821214367
Email	mail@rxmarine.com
Website	www.rxmraine.com

2. Composition / informationon ingredients

Substance	
Formula	Na2S
Molecular weight	78.04 g/mol
CAS-No.	1313-82-2
EC-No	215-211-5
Index number	016-009-00-8

Hazardous components

Component	Classification	Concentration
Sodium sulphide		
	Self-heat. 1; Met. Corr. 1; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; H251, H290, H301 + H311, H314, H318, H4	= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

3. Hazards Identification

HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	Self-heating substances and mixtures (Category 1), H251 Corrosive to metals (Category 1), H290 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Dermal (Category 3), H311 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 1), H40

GHS Label elements, including precautionary statements

Hazard statement(s)	H251 Self-heating: may catch fire. H290 May be corrosive to metals. H301 + H311 Toxic if swallowed or in contact with skin P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. 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 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. P305 + P351 + P338 + P310 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/doctor. P362 Take off contaminated clothing and wash before reuse. P390 Absorb spillage to prevent material damage. P391 Collect spillage. P405 Store locked up. P406 Store in corrosive resistant stainless steel container with a resistant inner liner. P407 Maintain air gap between stacks/ pallets. P413 Store bulk masses greater than .? kg/ .? lbs at temperatures not exceeding .? °C/ .? °F. P420 Store away from other materials. P501 Dispose of contents/ container to an approved waste disposal plant.
Hazards not otherwise classified (HNOC) or not covered by GHS	with acids liberates toxic gas., Corrosive to the respiratory tract.

4. First Aid Measures

Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact	Continue rinsing eyes during transport to hospital.Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing media	Dry powder
Special hazards arising from the substance or mixture	Sulphur oxides, Sodium oxides
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency proceduresl	Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.Evacuate personnel to safe areas. Avoid breathing dust.For personal protection see section 8
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environmentmust be avoided.
Methods and materials for containment and cleaning up	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.Keep in suitable, closed containers for disposal
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Recommended storage temperature 2 - 8 °C hygroscopic Air and light sensitive.
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls and personal protection

Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering ontrols Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate
government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

Appearance	Form: solid Colour: yellow
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	Melting point/range: 950 °C (1742 °F) - lit.
Initial boiling point and boiling range	No data available
Flash point	()Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.86 g/mL at 25 °C (77 °F)
Water solubility	178 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - soluble
Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	The substance or mixture is classified as self heating with the category
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	Air avoid moisture/, Light.
Incompatible materials	Oxidizing agents, Copper, ZincAcids
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Sodium oxides Other decomposition products - No data available In the event of fire: see section 5

11. Toxicological information

Information on toxicological effects

Acute toxicity	LD50 Oral - Rat - 246 mg/kg(Sodium sulphide) (OECD Test Guideline 401) Inhalation: No data available(Sodium sulphide) Dermal: No data available(Sodium sulphide) No data available(Sodium sulphide)
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available
Respiratory or skin sensitisation	Not available
Germ cell mutagenicity	Mouse(Sodium sulphide) lymphocyte Result: negative (Sodium sulphide) Mouse - male and female Result: negative
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available(Sodium sulphide)
	No data available(Sodium sulphide)
Specific target organ toxicity - single exposure	No data available(Sodium sulphide
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available(Sodium sulphide)
Additional Information	RTECS: WE1905000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.,
Cough, Shortness of breath, Headache, Nausea(Sodium sulphide)

12. Ecological information

Toxicity	
Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill sunfish) - 0.032 mg/l - 96 h(Sodium sulphide) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 2.1 mg/l - 48 h(Sodium sulphide)
Toxicity to algae	Growth inhibition EC50 - Chlorella pyrenoidosa - 75 mg/l - 96 h(Sodium sulphide)
Persistence and degradability	No data available
Other adverse effects	No data available
Bioaccumulative potential	Does not significantly accumulate in organisms.
Mobility in soil	No data available(Sodium sulphide)
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

13. Disposal considerations

Waste treatment methods

Product	Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and nonrecyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.
Contaminated packaging	Dispose of as unused product.

14. Transport information

DOT US	UN number Proper shipping name Poison Inhalation Hazard: No	Class: 4.2 Sodium sulfide, anhydrous:	Packing group: II	
IMDG	UN number: 1385 Proper shipping name: Marine pollutant : yes	Class: 4.2 SODIUM SULPHIDE, ANHYDROUS	Packing group: II	EMS-No: F-A, S-J
IATA	UN number: 1385 Proper shipping name: Sodium sulphide, anhydrous	Class: 4.2	Packing group: II	

15. Regulatory information

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 Components	hemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Reactivity Hazard, Acute Health Hazard
Massachusetts Right To Know Components	Sodium sulphide CAS-No. 1313-82-2 Revision Date 1993-04-24
Pennsylvania Right To Know Components	Sodium sulphide CAS-No. 1313-82-2 Revision Date 1993-04-24
New Jersey Right To Know Components	Sodium sulphide CAS-No. 1313-82-2 Revision Date 1993-04-24
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

Other Information

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