# Material Safety Data Sheet

**Hydrogen Sulfide Test Paper** (RXSOL-60-6286-001)

## 1. Product and Company Identifaction

| | |
|---|---|
| Product Name | RXSOL-60-6286-001 |
| Product Type | Hydrogen Sulfide Test Paper |

**Company Details:**

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

| | |
|---|---|
| Phone | +91 22 65113333 / 5555 / 9999 |
| Fax | +91 22 2781 1318 :::AOH :0091 9821214367 |
| Email | mail@rxmarine.com |


## 2. Composition / informationon ingredients

**Paper saturated with Copper Sulfate**

**CAS No.:** 7758-99-8
**TSCA CAS Number:** 7758-98-7
**Percent Range:** 100.0
**Percent Range Units:** weight / weight
**LD50:** Oral rat LD50 = 300 mg/kg
**LC50:** None reported
**TLV:** 1 mg/m3 (Cu)
**PEL:** 1 mg/m3 (Cu)
**Hazard:** Harmful if swallowed Harmful if inhaled. May cause irritation.

## 3. Hazards Identification

**Emergency Overview:**
**Appearance:** Pale blue paper discs
**Odor:** Odorless
HARMFUL IF SWALLOWED MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION

**HMIS:**
Health: 3
Flammability: 0
Reactivity: 0
Protective Equipment: X - See protective equipment, Section 8.

**NFPA:**
Health: 2
Flammability: 0
Reactivity: 0
Symbol: Not applicable

**Potential Health Effects:**
**Eye Contact:** May cause irritiation
**Skin Contact:** May cause irritiation
**Skin Absorption:** None reported
**Target Organs:** None reported
**Ingestion:**Toxic May cause: abdominal pain nausea vomiting metallic taste diarrhea headache central nervous system

effects convulsions coma liver damage kidney damage death
**Target Organs:** Liver Kidneys Central nervous system
**Inhalation:** Not applicable
**Target Organs:** Not applicable
**Medical Conditions Aggravated:**Wilson's disease Pre-existing: Skin conditions Respiratory conditions Liver conditions Kidney conditions
**Chronic Effects:** Chronic overexposure may cause dermatitis greenish discoloration of the skin or hair metallic taste

**Cancer / Reproductive Toxicity Information:**
O.S.H.A. Listed: No

IARC Listed: No

NTP Listed: No

**Additional Cancer / Reproductive Toxicity Information:** None reported
**Toxicologically Synergistic Products:** Not applicable

## 4. First Aid Measures

| | |
|---|---|
| Skin Contact : | Wash skin with plenty of water. Call physician if irritation develops. |
| Eye Contact: | Immediately flush eyes with water for 15 minutes. Call physician. |
| INHALATION: | Remove to fresh air. |
| INGESTION: | Induce vomiting using syrup of ipecac or by sticking finger down throat. Never give anything by mouth to an unconscious person. Call physician immediately |

## 5. Fire-fighting Measures

**Flammable Properties:** Can burn in fire, releasing toxic vapors.
**Flash Point:** Not applicable
**Method:** Not applicable

**Flammability Limits:**
**Lower Explosion Limits:** Not applicable
**Upper Explosion Limits:** Not applicable
**Autoignition Temperature:** Not determined
**Hazardous Combustion Products:** Toxic fumes of: sulfur oxides.
**Fire / Explosion Hazards:** Do not expose to flames.
**Static Discharge:** None reported.
**Mechanical Impact:** None reported
**Extinguishing Media:** Use media appropriate to surrounding fire conditions
**Fire Fighting Instruction:** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

## 6. Accidental Release Measures

Spill Response Notice:
Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance.

**Containment Technique:** Stop spilled material from being released to the environment. Releases of this material may contaminate the environment.

**Clean-up Technique:** Sweep up material. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse.

**Evacuation Procedure:** Evacuate as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation.

**Special Instructions (for accidental release):** Product is regulated as a hazardous water pollutant.

**304 EHS RQ (40 CFR 355):** Not applicable

**D.O.T. Emergency Response Guide Number:** Not applicable

## 7. Handling and Storage

**Handling:** Avoid contact with eyes skin clothing Do not breathe dust. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

**Storage:** Keep container tightly closed when not in use.

**Flammability Class:** Not applicable

## 8. Exposure controls and personal protection

**Engineering Controls:** Maintain adequate ventilation to keep vapor level below TWA for chemicals in this product. Maintain general industrial hygiene practices when using this product.

**Personal Protective Equipment:**
**Eye Protection:** safety glasses with top and side shields
**Skin Protection:** lab coat disposable latex gloves
**Inhalation Protection:** adequate ventilation
**Precautionary Measures:** Avoid contact with: eyes skin clothing Do not breathe: dust Wash thoroughly after handling.
**TLV:** 1 mg/M³ (Cu)
**PEL:** 1 mg/M³ (Cu)

## 9. Physical and chemical properties

| | |
|---|---|
| Appearance | Pale blue paper discs |
| Physical State | Solid |
| Molecular Weight | Not applicable |
| Odor | Odorless |
| pH | Not applicable |
| Vapor Pressure | Not applicable |
| Vapor Density (air = 1) | Not applicable |
| Boiling Point | Not applicable |
| Melting Point | Not applicable |
| Specific Gravity (water = 1) | Not applicable |
| Evaporation Rate (water = 1) | Not applicable |
| Volatile Organic Compounds Content | Not applicable |
| Partition Coefficient (n-octanol / water) | Not applicable |
| Solubility | Water: Not applicable |
| Acid | Not applicable |
| Other | Not applicable |
| Metal Corrosivity: Steel | Not determined |
| Aluminum | Not determined |

## 10. Stability and reactivity

| | |
|---|---|
| Chemical Stability | Stable when stored under proper conditions |
| Conditions to Avoid | Heating to decomposition |
| Reactivity / Incompatibility | Incompatible with: hydroxylamine magnesium |
| Hazardous Decomposition | Heating to decomposition releases toxic and/or corrosive fumes of: sulfur oxides |
| Hazardous Polymerization | Will Not Occur |

## 11. Toxicological information

**Product Toxicological Data:**
LD50: None reported
LC50: None reported

**Dermal Toxicity Data:** None reported
**Skin and Eye Irritation Data:** None reported
**Mutation Data: Copper sulfate:** DNA inhibition - human lymphocytes - 76 ?mol/l
**Reproductive Effects Data:** None reported
**Ingredient Toxicological Data:** Copper sulfate: Oral rat LD50 = 300 mg/kg

## 12. Ecological information

**Product Ecological Information: --**
No ecological data available for this product.

**Ingredient Ecological Information: --**
No ecological data available for the ingredients of this product.

## 13. Disposal considerations

**EPA Waste ID Number:** None

**Special Instructions (Disposal):** Place material in a plastic bag. Add a non-reactive absorbant material if waste contains free liquid and seal bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse.

**Empty Containers:** Rinse three times with an appropriate solvent. Dispose of empty container as normal trash.

**NOTICE (Disposal):** These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

## 14. Transport information

**D.O.T.:**
**D.O.T. Proper Shipping Name:** Not Currently Regulated
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**DOT Hazard Class:** NA

**DOT Subsidiary Risk:** NA
**DOT ID Number:** NA
**DOT Packing Group:** NA

**I.C.A.O.:**
**I.C.A.O. Proper Shipping Name:** Not Currently Regulated
--
**ICAO Hazard Class:** NA
**ICAO Subsidiary Risk:** NA
**ICAO ID Number:** NA
**ICAO Packing Group:** NA

**I.M.O.:**
**I.M.O. Proper Shipping Name:** Not Currently Regulated
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**I.M.O. Hazard Class:** NA
**I.M.O. Subsidiary Risk:** NA
**I.M.O. ID Number:** NA
**I.M.O. Packing Group:** NA

**Additional Information:** There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is NOT in a set or kit, the classification given above applies. If the item IS part of a set or kit, the classification would change to the following: UN3316 Chemical Kit, Class 9, PG II or III. If the item is not regulated, the Chemical Kit classification does not apply. ALSO NOTE: If the National Competent Authority declares this product an environmental hazard by Special Provision 909 (IMDG) and Special Provision A97 (IATA) the classification may be UN3077 or UN3082.

## 15. Regulatory information

**U.S. Federal Regulations:**
**O.S.H.A.:** This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

**E.P.A.:**
**S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370):** Immediate (Acute) Health Hazard
**S.A.R.A. Title III Section 313 (40 CFR 372):** This product contains a chemical(s) subject to the reporting requirements of Section 313 of Title III of SARA.
Copper compounds
**302 (EHS) TPQ (40 CFR 355):** Not applicable
**304 CERCLA RQ (40 CFR 302.4):** Cupric sulfate 10 lbs.
**304 EHS RQ (40 CFR 355):** Not applicable
**Clean Water Act (40 CFR 116.4):** Cupric Sulfate - RQ 10 lbs.
**RCRA:** Contains no RCRA regulated substances.
**C.P.S.C.:** Not applicable
**State Regulations:**
**California Prop. 65:** No Prop. 65 listed chemicals are present in this product.
**Identification of Prop. 65 Ingredient(s):** Not applicable
**California Perchlorate Rule CCR Title 22 Chap 33:**
**Trade Secret Registry:** Not applicable
**National Inventories:**
**U.S. Inventory Status:** All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710).

**TSCA CAS Number:** Copper sulfate (7758-98-7)

## 16. Other information

**Intended Use:** Determination of hydrogen sulfide

**References:** 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor). Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. The Merck Index, 11th Ed. Rahway, New Jersey: Merck and Co., Inc., 1989. Sax, N. Irving. Dangerous Properties of Industrial Materials, 7th Ed. New York: Van Nostrand Reinhold Co., 1989. CCINFO RTECS.Canadian Centre for Occupational Health and Safety. Hamilton, Ontario Canada: 30 June 1993. Gosselin, R. E. et al. Clinical Toxicology of Commercial Products, 5th Ed. Baltimore: The Williams and Wilkins Co.,
1984. Vendor Information. Technical Judgment.
**Revision Summary:** Updates in Section(s) 14,

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**Legend:**
NA - Not Applicable w/w - weight/weight
ND - Not Determined w/v - weight/volume

NV - Not Available v/v - volume/volume

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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