

# H2S Scavenger RX 40 Glyoxal Based

Part No. RXSOL-81-2065-250 — Generated 06 Oct 2026

## 1. Product and Company Identification

Product Name H2S Scavenger Rx 40 ( Glyoxal Based)

Part Number RXSOL-81-2065-250

Company Details:

RX MARINE INTERNATIONAL

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## 2. Composition / information on ingredients

| Chemical Name   | CAS Number | EC Number | Weight   |
|-----------------|------------|-----------|----------|
| Glyoxal         | 107-22-2   | 203-474-9 | 39 - 40% |
| Ethylene Glycol | 107-21-1   | 203-474-3 | 1 - 2%   |

## 3. Hazards Identification

| Signal Word                           | Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | H320 Causes eye irritation.<br>H315 Causes skin irritation.<br>H332 Harmful if inhaled.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hazard Statements                     | H317 May cause an allergic skin reaction.<br>H335 May cause respiratory irritation.<br>H341 Suspected of causing genetic defects.<br>H402 Harmful to aquatic life.                                                                                                                                                                                                                                                                                                                                              |
| Precautionary statements - prevention | P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P271 Use only outdoors or in a well-ventilated area.<br>P260 Do not breathe mist or vapour.<br>P201 Obtain special instructions before use.<br>P273 Avoid release to the environment.<br>P202 Do not handle until all safety precautions have been read and understood.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P264 Wash with plenty of water and soap thoroughly after handling. |

Precautionary statements - response

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 IF ON SKIN (or hair): Wash with plenty of soap and water.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

## 4. First Aid Measures

|                     |                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General information | Remove contaminated clothing.                                                                                                                                                         |
| After inhalation    | Keep patient calm, remove to fresh air, seek medical attention.                                                                                                                       |
| After skin contact  | Wash affected areas thoroughly with soap and water. Remove contaminated clothing. Wash contaminated clothing before reuse. If irritation develops, seek medical attention.            |
| After eye contact   | In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention.                                                             |
| After swallowing    | Rinse mouth and then drink plenty of water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required. |

## 5. Fire-fighting Measures

|                                |                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------|
| Flash Point                    | Non Flammable                                                                                          |
| Suitable extinguishing media   | water spray, foam, dry powder, carbon dioxide                                                          |
| Unsuitable extinguishing media | For this substance/mixture no limitations of extinguishing agents are given.                           |
| Hazards during fire Fighting   | No particular hazards known.                                                                           |
| Advice for firefighters        | Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.             |
| Further information            | Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. |

## 6. Accidental Release Measures

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Avoid contact with the skin, eyes and clothing.                                                                                                                                                                                                                                                                                                                            |
| Environmental precautions                                           | Do not let product enter drains.                                                                                                                                                                                                                                                                                                                                           |
| Methods and materials for containment and cleaning up               | For large amounts: Pump off product.<br>For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations. |

## 7. Handling and Storage

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | Ensure thorough ventilation of stores and work areas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Storage                       | Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE). Protect from air. Storage temperature: 40 °C. During the storage a product characteristic clouding or crystalline precipitation of the trimeric glyoxal hydrate may occur. The process is reversible if warmed up mild (max. 40 °C). From the data on storage duration in this safety data sheet no agreed statement regarding the warranty of application properties can be deduced. Protect from temperatures above: 50 °C |
| Hygiene measures              | Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## 8. Exposure controls and personal protection

|                                              |                                                                                                                                                                                                     |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Components with occupational exposure limits | Ethylene Glycol ::: ACGIH TLV CLV<br>100 mg/m <sup>3</sup> aerosol ; TWA value 25 ppm<br>Vapor fraction ; STEL value 50 ppm Vapor<br>fraction ; STEL value 10 mg/m <sup>3</sup> Aerosol, inhalable. |
|                                              | Glyoxal ::: ACGIH TLV TWA<br>value 0.1 mg/m <sup>3</sup> Inhalable fraction and vapor                                                                                                               |
| Appropriate Engineering controls             | Use as general industrial hygiene practice.                                                                                                                                                         |

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal protective equipment       | Respiratory protection:<br>Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions. Wear a NIOSH-certified (or equivalent) organic vapour respirator. |
|                                     | Hand protection:<br>chloroprene rubber (Neoprene), nitrile rubber (Buna N), polyvinylchloride (Pylox)                                                                                                                                                                                                                                                                                                                                         |
|                                     | Eye protection:<br>Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.                                                                                                                                                                                                                                                                                                                            |
|                                     | Body protection:<br>Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).                                                                                                                                                                                                           |
|                                     | Work place should be equipped with a shower and an eye wash. Wear protective clothing as necessary to prevent contact. When using, do not eat, drink or smoke. Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water and soap, skin care.                                                                                                   |
| General safety and hygiene measures |                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## 9. Physical and chemical properties

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Form                        | Fluid                                         |
| Colour                      | Clear to light Yellow                         |
| Odour                       | Mild                                          |
| Odor Threshold              | No Data Available                             |
| pH                          | -50 - -15 °C                                  |
| Melting/Freezing Point      | 20.5°C                                        |
| Boiling point/Boiling range | Boiling point: 103.6 °C at 1.013 hPa - (ECHA) |
| Flash point                 | Non Flammable                                 |
| Ignition temperature        | Approx. 285 °C (DIN 51794)                    |
| Danger of explosion         | Product does not present an explosion hazard. |
| Vapour pressure at 20°C     | 20.2 hPa                                      |
| Vapour Density              | No data available                             |
| Density at 20°C             | 1.23 - 1.27 g/cm <sup>3</sup>                 |
| Relative Density            | No data available                             |
| Evaporation rate            | No data available                             |
| Flammability (solid, gas)   | No data available                             |
| Upper explosion limit       | No data available                             |
| Lower explosion limit       | No data available                             |
| Water solubility at 20 °C   | Completely soluble                            |

## 10. Stability and reactivity

|                                    |                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------|
| Reactivity                         | No hazardous reactions if stored and handled as prescribed/indicated.                   |
| Chemical stability                 | The product is chemically stable under standard ambient conditions (room temperature) . |
| Possibility of hazardous reactions | The product is chemically stable.                                                       |
| Conditions to avoid                | Strong heating.                                                                         |
| Incompatible materials             | strong alkalis                                                                          |
| Hazardous decomposition products   | No hazardous decomposition products if stored and handled as prescribed/indicated.      |

## 11. Toxicological information

|                      |                                                                                                                                                                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity       | Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact. Of moderate toxicity after short-term inhalation.<br>Oral<br>Type of value: LD50<br>Species: rat (male/female)<br>Value: 3,300 mg/kg (OECD Guideline 401) |
| Irritation/Corrosion | Type of value: LC50<br>Species: rat (male/female)<br>Value: 2.44 mg/l (OECD Guideline 403)<br>Exposure time: 4 h<br>An aerosol was tested.                                                                                                                                      |
| Dermal               | Type of value: LD50<br>Species: rat (male/female)<br>Value: > 2,000 mg/kg (OECD Guideline 402)<br>Limit concentration test only (LIMIT test).                                                                                                                                   |
| Eye                  | Species: rabbit<br>Result: Irritant.<br>Method: OECD Guideline 405                                                                                                                                                                                                              |
| Sensitization        | Guinea pig maximization test<br>Species: guinea pig<br>Result: sensitizing<br>Method: OECD Guideline 406<br>Human Maximization Test<br>Species: human<br>Result: sensitizing<br>Literature data.                                                                                |
| Aspiration Hazard    | No aspiration hazard expected.                                                                                                                                                                                                                                                  |

|                                               |                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic Toxicity/Effects                      | Repeated dose toxicity                                                                                                                                                                                                                                                  |
|                                               | Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.                                                                                                                                                                 |
|                                               | Genetic toxicity                                                                                                                                                                                                                                                        |
|                                               | Assessment of mutagenicity: The substance was mutagenic in various test systems with microorganisms and cell cultures; however, these results could not be confirmed in tests with mammals. Mutagenic properties can not be excluded on the basis of experimental data. |
|                                               | Carcinogenicity                                                                                                                                                                                                                                                         |
|                                               | Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.                                                                                                                                                 |
| Symptoms of Exposure                          | Reproductive toxicity                                                                                                                                                                                                                                                   |
|                                               | Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.                                                                                                                                                  |
|                                               | Teratogenicity                                                                                                                                                                                                                                                          |
| Medical conditions aggravated by overexposure | Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.                                                                                                                                                 |
|                                               | No applicable toxicity data                                                                                                                                                                                                                                             |

## 12. Ecological information

|                               |                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to Fish              | Acute:                                                                                                                                                            |
|                               | (DIN 38412 Part 15 static)<br>Leuciscus idus / LC50 (96 h): > 460 - 680 mg/l<br>Nominal concentration.                                                            |
| Aquatic invertebrates         | Acute:                                                                                                                                                            |
|                               | (Directive 79/831/EEC static)<br>Daphnia magna/EC50 (48 h): 404 mg/l<br>Nominal concentration.                                                                    |
| Aquatic plants                | Toxicity to aquatic plants:                                                                                                                                       |
|                               | OECD Guideline 201 static<br>Green algae/EC50 (72 h): > 100 mg/l<br>Nominal concentration.                                                                        |
| Microorganisms                | Toxicity to microorganisms:                                                                                                                                       |
|                               | OECD Guideline 209 static<br>Activated sludge/EC20 (0.5 h): > 1,000 mg/l                                                                                          |
| Persistence and degradability | 90 - 100 % DOC reduction (19 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic, non-adapted) Readily biodegradable (according to OECD criteria). |
| Other adverse effects         | Harmful to aquatic life.                                                                                                                                          |
| Bioaccumulative potential     | Assessment bioaccumulation potential                                                                                                                              |
|                               | Significant accumulation in organisms is not to be expected.                                                                                                      |
| Additional Information        | Bioaccumulation potential                                                                                                                                         |
|                               | Bioconcentration factor: 3.2, Fish (calculated)                                                                                                                   |
| Additional Information        | Chemical oxygen demand (COD): 350 mg/g                                                                                                                            |
|                               | Biochemical oxygen demand (BOD) Incubation period 5 d: 175 mg/g                                                                                                   |

Mobility in soil

The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.

## 13. Disposal considerations

Remarks

Do not discharge into waterways or sewer systems without proper authorization. Dispose of in accordance with national, state and local regulations.

Waste Disposal

Dispose as normaly as per local regulation

## 14. Transport information

Transport hazard class(es)

| UN | Number                     | DOT                         | TDG Classification          | IMDG                        | IATA                         |
|----|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
|    |                            | Not dangerous goods         | Not dangerous goods         | Not dangerous goods         | Not dangerous goods          |
|    | Proper shipping name       | Not regulated for transport | Not regulated for transport | Not regulated for transport | 2Not regulated for transport |
|    | Transport hazard class(es) | Not regulated for transport | Not regulated for transport | Not regulated for transport | Not regulated for transport  |
|    | Packing Group              | Not regulated for transport | Not regulated for transport | Not regulated for transport | Not regulated for transport  |
|    | Environmental hazards      | NO                          | NO                          | NO                          | NO                           |

Marine pollutant

No

## 15. Regulatory information

Regulatory Information

- Section 355 (extremely hazardous substances): None of the ingredients are listed
- 313 (Specific toxic chemical listings): 107-21-1 ethylene glycol
- TSCA (Toxic Substances Control Act):All ingredients are listed.
- Proposition 65 : Chemicals known to cause cancer: None of the ingredients are listed.
- Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.
- Chemicals known to cause reproductive toxicity for males:None of the ingredients are listed.
- Chemicals known to cause developmental toxicity: None of the ingredients are listed.
- EPA (Environmental Protection Agency) :None of the ingredients are listed.
- TLV (Threshold Limit Value established by ACGIH)
  - 107-22-2 glyoxal A4
  - 107-21-1 ethylene glycol A4
- NIOSH-Ca (National Institute for Occupational Safety and Health) : None of the ingredients are listed.

NFPA Hazard codes

Health: 2 Fire: 0 Reactivity: 0 Special:

## 16. Other information

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 we assume 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 we 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.

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