

Product Name	H2S Scavenger Rx 40 ( Glyoxal )
Part Number	RXSOL-81-2065-250

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](mailto:mail@rxmarine.com)

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%

Signal Word                      Warning                      Hazard Statements

H320 Causes eye irritation.  
H315 Causes skin irritation.  
H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H341 Suspected of causing genetic defects.  
H402 Harmful to aquatic life.

#### Precautionary statements - prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P271 Use only outdoors or in a well-ventilated area.  
P260 Do not breathe mist or vapour.  
P201 Obtain special instructions before use.  
P273 Avoid release to the environment.  
P202 Do not handle until all safety precautions have been read and understood.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
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.

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.

Flash Point	Non Flammable	Suitable extinguishing media	water spray, foam, dry powder, carbon dioxide
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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.

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.

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.

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:

#### Hygiene measures

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work

#### Components with occupational exposure limits

Ethylene Glycol ::: ACGIH TLV CLV

100 mg/m<sup>3</sup> aerosol ; TWA value 25 ppm

Vapor fraction ; STEL value 50 ppm Vapor

fraction ; STEL value 10 mg/m<sup>3</sup> Aerosol, inhalable.

Glyoxal ::: ACGIH TLV TWA

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:

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:

chloroprene rubber (Neoprene), nitrile rubber (Buna N), polyvinylchloride (Pylox)

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

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).

General safety and hygiene measures

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.

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/cm³
Evaporation rate	No data available	Relative Density	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

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 alkalies

Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

#### 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.

Oral

Type of value: LD50

Species: rat (male/female)

Value: 3,300 mg/kg (OECD Guideline 401)

Irritation/Corrosion

Type of value: LC50

Species: rat (male/female)

Value: 2.44 mg/l (OECD Guideline 403)

Exposure time: 4 h

An aerosol was tested.

Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 2,000 mg/kg (OECD Guideline 402)

Limit concentration test only (LIMIT test).

Eye

Species: rabbit

Result: Irritant.

Method: OECD Guideline 405

Sensitization

Guinea pig maximization test

Species: guinea pig

Result: sensitizing

Method: OECD Guideline 406

Human Maximization Test

Species: human

Result: sensitizing

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.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Symptoms of

Exposure

No applicable toxicity data

Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

Toxicity to Fish		Acute:	
(DIN 38412 Part 15 static)			
Leuciscus idus / LC50 (96 h): > 460 -	Nominal concentration.	Aquatic invertebrates	Acute:
(Directive 79/831/EEC static)			
Daphnia magna/EC50 (48 h): 404 mg/l			
Nominal concentration.	Aquatic plants		
Toxicity to aquatic plants:			
OECD Guideline 201 static			
Green algae/EC50 (72 h): > 100 mg/l			
Nominal concentration.	Microorganisms		
Toxicity to microorganisms:			
OECD Guideline 209 static			
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.			
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.		
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



Transport hazard class(es)			DOT		TDG Classification		IMDG
IATA	UN	Number	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous	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	

#### 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:

#### Other Information

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