

## 1. Product and Company Identification

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Product Name Acid corrosion Inhibitor  
Part Number RXSOL-44-1503-025

Company Details:....

RX MARINE INTERNATIONAL  
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## 2. Composition / Information on ingredients

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Substances

Hazardous Component(s)	CAS Number	Percentage
2-Butoxyethanol	111-76-2	35 - 40
Olelyl alcohol ethoxylated	Proprietary	20 - 25
Cyclic amine reaction product with acetophenone and formaldehyde acid salt	Proprietary	10 - 15
Acetophenone	98-86-2	0.1 - 1
Propargyl alcohol	107-19-7	0.1 - 0.5

## 3. Hazards Identification

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### HAZARD CLASS

FLAMMABLE LIQUID  
ACUTE TOXICITY ORAL  
SKIN IRRITATION  
EYE IRRITATION  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

### HAZARD CATEGORY

4  
4  
2  
2A  
3

Precautionary Statements

Prevention

Keep away from heat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.

Response

If SWALLOWED: Immediately call poison control or physician if you feel unwell. IF ON SKIN:

Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. In case of fire: Use foam, dry chemical

or carbon dioxide to extinguish.

Storage Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up

Disposal Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

## 4. First Aid Measures

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Inhalation If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

Skin contact Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention.

Eye contact In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion Get immediate medical attention. Do not induce vomiting.

Symptoms See Section 11.

## 5. Fire-fighting Measures

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Extinguishing media Foam, dry chemical or carbon dioxide. Water may be an ineffective extinguishing medium.

Special firefighting procedures Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.

Hazardous combustion products Irritating and toxic gases or fumes may be released during a fire.

## 6. Accidental Release Measures

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Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions Prevent further leakage or spillage if safe to do so. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Wear appropriate protective equipment and clothing during clean-up.

Clean-up methods Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of according to Federal, State and local governmental regulations.

## 7. Handling and Storage

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Handling Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Do not take internally. For industrial use only.

Storage For safe storage, store between 50 °F (10°C) and 104 °F (40°C) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not pressurize, cut, heat or weld containers.

## 8. Exposure controls and personal protection

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Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
2-Butoxyethanol	20 ppm TWA	50 ppm (240 mg/m <sup>3</sup> )	None	None
		PEL (SKIN)		
Olelyl alcohol ethoxylated	None	None	None	None
Cyclic amine reaction product with acetophenone and formaldehyde acid salt	None	None	None	None
Acetophenone	10 ppm TWA	None	10 ppm (50 mg/m <sup>3</sup> ) TWA	None
Propargyl alcohol	1 ppm TWA (SKIN)	None	None	None
Engineering controls				Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.
Respiratory protection				If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.
Eye/face protection				Wear chemical goggles; face shield (if splashing is possible)
Skin protection				Wear impervious gloves for prolonged contact. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

## 9. Physical and chemical properties

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Physical state	Liquid
Colour	Amber
Odor	Aromatic
Odor threshold	Not available.
pH	3.5 - 5.0 (1% solution)
Vapor pressure	Not available.
Boiling point/range	> 200 °F (> 93.3 °C) calculated
Melting point/ range	0 °F (-17.8 °C) calculated
Specific gravity	0.98 - 1.00 at 68 °F (20°C)
Vapor density	Not determined
Flash point	189 °F (87.22 °C) Tagliabue closed cup
Flammable/Explosive limits - lower	Not available.
Flammable/Explosive limits - Upper	Not available.
Autoignition temperature	Not determined
Evaporation rate	Not determined
Solubility in water	Complete
Partition coefficient (n-octanol/water)	Not determined
VOC content	45.9 % EPA Method 24
Viscosity	Not available
Decomposition temperature	Not available

## 10. Stability and reactivity

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Stability	Stable at normal conditions.
Hazardous reactions	None under normal processing.
Hazardous decomposition products	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.
Incompatible materials	This product may react with strong oxidizing agents. This product may react with strong reducing agents. This product may react with strong alkalis.
Reactivity	Not available
Conditions to avoid	Store away from incompatible materials.

## 11. Toxicological information

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Relevant routes of exposure	Skin, Inhalation, Eyes
Potential Health Effects/Symptoms	
Inhalation	This product is irritating to the respiratory system. Repeated inhalation may be harmful; lung irritation and serious central nervous system disorders may result. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
Skin contact	Contact with liquid may produce severe skin irritation including redness and inflammation. A component in this product may be absorbed through the skin, especially if skin is damaged.
Eye contact	Contact can cause moderate to severe irritation and possible injury to the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Ingestion	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful or fatal if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
2-Butoxyethanol	Oral LD50 (RAT) = 560 mg/kg	Blood, Central nervous system, Irritant,
	Oral LD50 (RABBIT) = 0.32 g/kg	Kidney, Liver
	Oral LD50 (RAT) = 1.48 g/kg	
	Dermal LD50 (RABBIT) = 400 mg/kg	
	Inhalation LC50 (RAT, 4 h) = 486 ppm	
	Inhalation LC50 (RAT, 4 h) = 450 ppm	
Olelyl alcohol ethoxylated	None	Allergen, Irritant, Kidney
Cyclic amine reaction product with acetophenone and formaldehyde acid salt	None	No Records
Acetophenone	Oral LD50 (RAT) = 0.81 g/kg	Blood, Central nervous system, Eyes, Irritant
	Oral LD50 (RAT) = 3.0 g/kg	
Propargyl alcohol	Oral LD50 (RAT) = 20 mg/kg	Central nervous system, Corrosive, Irritant, Kidney, Liver, Metabolic
	Oral LD50 (RAT) = 100 mg/kg	
	Oral LD50 (RAT) = 50 mg/kg	
	Oral LD50 (RAT) = 54 mg/kg	
	Oral LD50 (RAT) = 93 mg/kg	
	Dermal LD50 (RABBIT) = 16 mg/kg	

Dermal LD50 (RABBIT) = 88 mg/kg

Inhalation LC50 (RAT, 1 h) = 1,040 mg/l

Inhalation LC50 (RAT, 1 h) = 1,200 mg/l

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
2-Butoxyethanol	No	No	No
Olelyl alcohol ethoxylated	No	No	No
Cyclic amine reaction product with acetophenone and formaldehyde acid salt	No	No	No
Acetophenone	No	No	No
Propargyl alcohol	No	No	No

## 12. Ecological information

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Ecological information Not available

## 13. Disposal considerations

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Recommended method of disposal Dispose of according to Federal, State and local governmental regulations  
Hazardous waste number This product contains a component or components identified as hazardous under 40 CFR 261.24. U004: Acetophenone. P102: Propargyl alcohol.

## 14. Transport information

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### U.S. Department of Transportation Ground (49 CFR)

Proper shipping name Combustible liquid, n.o.s. (Butylglycol)  
Hazard class or division Combustible Liquid  
Identification number NA 1993  
Packing group III  
Exceptions Unrestricted, (Not more than 450 Liters)

### International Air Transportation (ICAO/IATA)

Proper shipping name Not regulated  
Hazard class or division None  
Identification number None  
Packing group None

### Water Transportation (IMO/IMDG)

Proper shipping name Not regulated  
Hazard class or division None  
Identification number None  
Packing group None

## 15. Regulatory information

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United States Regulatory Information

TSCA 8 (b) Inventory Status All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification	Cyclic amine reaction product with acetophenone and formaldehyde acid salt (CAS# 683748-05-2).
CERCLA/SARA Section 302 EHS	None above reporting de minimis
CERCLA/SARA Section 311/312	Immediate Health, Fire
CERCLA/SARA Section 313	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). 2-Butoxyethanol (CAS# 111-76-2).
California Proposition 65	This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known in the State of California to cause cancer.
Canada Regulatory Information	
CEPA DSL/NDSL Status	One or more components are not listed on, and are not exempt from listing on either the  Domestic Substances List or the Non-Domestic Substances List.

## 16. Other information

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### Other Information

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