

1. Product and Company Identification

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Product Name
Part Number

BIOCIDE MICRO Cooling Water
RXSOL-40-4009-020

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Name of Substance	Cas Number
Glutaraldehyde	111-30-8
Non Hazardous Proprietary Ingirdent	

3. Hazards Identification

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Signal Word	Warning
Hazard Statements	H302 + H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract
Precautionary statements - prevention	P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Precautionary statements - response	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Continue rinsing. P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

4. First Aid Measures

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Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15

	water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately if symptoms occur.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion:	Do not induce vomiting. Obtain medical attention. If vomiting occurs, lean patient forward or place on left side (head-down if possible) to maintain open airway and prevent aspiration.
Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

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Flammability	Non-flammable.
Flash Point	Not applicable.
Suitable extinguishing media	No information available
Hazardous combustion products	When heated to decomposition, it emits acrid smoke and fumes.
Protective Equipment	Use personal protective equipment.
Specific Hazards Arising from the Chemical	Not considered to be a significant fire risk.

6. Accidental Release Measures

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Small Spillage	Use appropriate tools to put the spilled solid in a convenient container. Clean up by spreading water on the contaminated surface and absorbent material. Follow local authority requirements
Personal Protection	Advice for non-emergency personnel: Avoid inhalation. In case of emergency procedures, consult an expert. Advice for emergency responders: see section 8.
Environmental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe local regulations (see sections 7 and 10). Take up dry. Dispose of properly. Clean up as directed.

7. Handling and Storage

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Handling	Do not ingest. Do not breathe dust. Avoid contact with eyes. In case of insufficient ventilation, wear suitable respiratory protection. In case of eye contact, flush with water and seek medical advice immediately and show the container or the label. Avoid contact with oxidizing agents, acids.
Storage	Light Sensitive. Refrigerate. Store in light-resistant containers in a cool, wellventilated area. Packing : Only pack in suitable containers.

8. Exposure controls and personal protection

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Engineering Control

Provide exhaust ventilation or other engineering controls to keep vapors below their respective threshold limit value. Ensure controls are proximal to the work-station location.

Personal Protection

Eye/face Protection : Wear appropriate protective eyewear as described by OSHA's eye and face protection regulation 29 CFR 1910.134 or European Standard EN166.

Skin and body protection : Wear appropriate protective clothing to prevent exposure. **Respiratory Protection** : Follow the OSHA regulation 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH approved respirator if exposure limits are exceeded or if irritation is experienced.

Other Protection Measure

Handle in accordance with good industrial hygiene and safety practices.

Exposure Limit

Glutaraldehyde TWA: 0.2 (ppm) [Australia] TWA: 0.75 (ppm) [Canada] (ppm) from NIOSH CEIL: 0.2 (ppm) from OSHA (PEL) (ppm) [United Kingdom (UK)] Consult local authorities for more information.



Gloves Suit

9. Physical and chemical properties

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Form	Liquid
Colour	Clear
Odour	Pungent / Fruity
Odor Threshold	No Information Available
pH	3.5 - 4.5
Freezing Point	-7 °C
Boiling Point	101°C
Flash Point	None ASTM D 56
Evaporation Rate	0.8 Calculated.
Flammability (solid, gas)	No Data Available
Explosive limits	No Data Available
Vapour pressure	21 hPa at 20 °C
Vapour Density	0.7
Relative density Information	1.05-1.10 at 25 °C
Partition coefficient	No data available

Explosive properties	None
Solubility	Soluble in water
Ignition temperature	275 °C

10. Stability and reactivity

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Reactivity	Forms explosive mixtures with air on intense heating.
Stability	Product is stable.
Possibility of hazardous reactions	Violent reactions possible with: Amines, Strong oxidizing agents Violent polymerisation may be caused by: Strong bases, Strong acids
Conditions to avoid	Strong Heating
Incompatible materials	Aluminium, various metals, Mild steel
Hazardous Polymerization	Hazardous polymerization does not occur.

11. Toxicological information

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Rout Of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animal	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 100 mg/kg [Mouse]. Acute dermal toxicity (LD50): >2500 mg/kg [Rat]. Acute toxicity of the vapour (LC50): 3 mg/m 4 hours [Rat]. 3
Toxic Effects on Humans	CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Glutaraldehyde]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Glutaraldehyde]. Mutagenic for bacteria and/or yeast. [Glutaraldehyde]. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSCEPTIBLE] [Glutaraldehyde]. Contains material which may cause damage to the following organs: blood, the reproductive system, liver, mucous membranes, spleen, central nervous system (CNS), Urinary system.
Special Remarks on other Toxic Effects on Humans:	Potential Health Effects: Eye: Causes severe eye irritation. May cause eye injury or chemical conjunctivitis. Skin: Causes severe skin irritation. It may be absorbed through the skin, although poorly. May cause allergic contact dermatitis with itching and rash. May cause staining of the skin and nails to a brown or golden brown color. Ingestion: Harmful if swallowed. May cause irritation of the digestive tract with burning sensation in the chest, abdominal pain, cramping, vomiting, diarrhea (watery or bloody diarrhea), vascular collapse, and coma. May also affect liver (increased liver enzymes, liver damage), spleen, blood (anemia), metabolism (weight loss), behavior (somnia, excitement, dizziness, lethargy, ataxia, seizures), metabolism (acidosis), urinary system (abnormal renal function, anuria) Inhalation: Harmful if inhaled. Can cause respiratory tract irritation and headaches.

12. Ecological information

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Eco Toxicity	Not Available
COD and BOD 5	Not Available
Products of Biodegradation:	No Information available
Mobility in soil	No Information available
Results of PBT and vPvB assessment	Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, a PBT/vPvB assessment was not conducted..
Other adverse effects	Discharge into the environment must be avoided.

13. Disposal considerations

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Waste treatment Method Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original mixing with other waste. Handle uncleaned containers like the product itself

14. Transport information

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DOT

UN Number	UN 3265
Proper shipping name	CORROSIVE LIQUID, N.O.S. (GLUTARDIALDEHYD SOLUTION)
Hazard Class	8
Packing group	III

TDG

UN Number	UN 3265
Proper shipping name	CORROSIVE LIQUID, N.O.S. (GLUTARDIALDEHYD SOLUTION)
Hazard Class	8
Packing group	III

IATA

UN Number	UN 3265
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Proper shipping name	CORROSIVE LIQUID, N.O.S. (GLUTARDIALDEHYD SOLUTION)
Hazard Class	8
Packing group	III

IMDG/IMO

UN Number	UN 3265
Proper shipping name	CORROSIVE LIQUID, N.O.S. (GLUTARDIALDEHYD SOLUTION)
Hazard Class	8
Packing group	III

15. Regulatory information

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Federal and State Regulation	Pennsylvania RTK: Glutaraldehyde Florida: Glutaraldehyde Massachusetts RTK: Glutaraldehyde New Jersey: California Director's list of Hazardous Substances: Glutaraldehyde TSCA 8(b) inventory: Glutaraldehyde; Water TSCA 8(d) H and S data reporting: Glutaraldehyde: 9/30/91 to 9/30/01
Other Regulation	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the Inventory of Existing Commercial Chemical Substances.
WHMIS (Canada)	CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2B: Material causing serious effects (TOXIC). CLASS E: Corrosive liquid.
DSCL (EEC)	R36- Irritating to eyes. S2- Keep out of the reach of children. S24/25- Avoid contact with skin and eyes. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS

Health Hazard	: 1
Fire Hazard	: 0
Reactivity	: 0
Personal Protection	: H

Fire :
Health Hazard : 1
Fire Hazard : 0
Reactivity : 0
Specific Hazard : H

16. Other information

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Other Information

The information above is believed to be accurate and available to us. However, we make no warranty of accuracy, implied, with respect to such information, and we advise you should make their own investigations to determine the product for particular purposes. In no event shall we be liable for any damages, for lost profits or any special, indirect, incidental, or consequential damages arising, even if **Rx Marine International** has been advised of the possibility of such damages.

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