Material Safety Data Sheet

Water Injection Bactericide (Aldehyde Type) (RXSOL-81-8173-220)

1. Product and Company Identifaction

Product Name	**Water Injection Bactericide (Aldehyde Type)**
Product Type	**RXSOL-81-8172-220**

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

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Phone	+91 22 65113333/ 5555 / 9999 / 27611360 / 27815540
Fax	+91 22 2781 1318 :::AOH :0091 9322594669
Email	**mail@rxmarine.com**

2. Composition / informationon ingredients

Glutaraldehyde	111-30-8	01 –10 %
Formaldehyde	50-00-0	01 – 20 %
Water	7732-18-5	To 100%

3. Hazards Identification

EFFECT OF OVER EXPOSURE:
EMERGENCY OVERVIEW:
Harmful if swallowed. Vapors extremely irritating to eyes & respiratory tract. This product is harmful by inhalation. When in contact with the skin and if it is swallowed.

EYE CONTACT:
This product is severely irritating to the eyes & may cause irreversible damage including burns & blindness. Symptoms may include stinging, tearing, redness, swelling & blurred vision.

SKIN CONTACT:
Corrosive to the skin contact with the skin or mucous. Membranes may cause severe irritation & burns. This product contains a component that may cause allergic skin reactions

SKIN ABSORPTION:
A component in this product may be absorbed through the skin, especially if skin is damaged.

INHALATION:
This product may cause irritation to the respiratory system. Repeated inhalation may be harmful, lung irritation & serious central nervous system disorders may result. Excessive inhalation of this material cause headache, dizziness, nausea & in coordination. Primary route (s) of entry% inhalation, ingestion, eye contact.

INGESTION:
This product may produce corrosive damage to the gastrointestional tract if it is swallowed. This may be harmful of fatal if swallowed.

4. First Aid Measures

EYE CONTACT:
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get Medical attention, if irritation persists.

SKIN CONTACT:
Immediately wash Skin with soap and water. Get Medical attention, if irritation persists
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INHALATION:
Remove to fresh Air. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen. Get immediate medical attention, if symptoms persist.

INGESTION:
If swallowed induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately

5. Fire-fighting Measures

Flash Point	: MORE THAN 100° C (Closed Cup)
Lower Explosive Limit	: N.D.
Upper	: N.D.
Auto Ignition Temp	: N.D.

Unusual Fire or Explosion Hazard :
Vapors can travel to a source of ignition and flash back. Combustible Liquid “Empty” containers retain product residue (Hard and / or vapor) and can be dangerous. Do not Pressurize, Cut, Weld Braze, Solder, Drill, grind, or expose such containers to heat, flame, Sparks or other sources of ignition. They may explode and cause injury or death.

Decomposition products: Irritating & toxic gases or fumes may be released during a fire.

Extinguishing Media:
Dry chemical foam Carbon Dioxide, water may be an ineffective extinguishing medium. Use water to cool fire exposed containers & to protect personnel.

Fire–Fighting instructions:
Firefighters should wear full protective clothing including self contained breathing apparatus.

6. Accidental Release Measures

CONTAINMENT PROCEDURES:
Stop the flow of material, if this is without risk. Eliminate all sources of ignition. Or flammable that may come in to contact with a spill of this material. Wear appropriate protective equipment & clothing during clean-up

CLEAN-UP PROCEDURES:
Absorb spill with absorbent pad, inert material shovel material in to appropriate container for disposal. Dispose of collected material according to regulation. Ventilate the contaminated area.

7. Handling and Storage

HANDLING PROCEDURES:
Do not allow contact with eyes. Avoid getting this material into contact with your skin. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Do not take internally for industrially use only. Keep this product away from heat, sparks or open flame.

STORAGE PROCEDURES:
Keep Container tightly closed & in a cool, well-ventilated place away from in compatible materials. Ellminate all sources of ignition.

8. Exposure controls and personal protection

NGINEERING CONTROL:
Local exhaust ventilation may be necessary to control any air contaminates to within their TLVS during the use of this products. Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower

PERSONAL PROTECTIVE EGVIPMENT:
As prescribed in the OSHA standard for personal protective equipment employers must perform a hazard assessment of all workplaces to determine the need for & selection of proper protective equipment for each task performed.

EYES/FACE PROTECTIVE EQUIPMENT:
Wear chemicals goggles. Face shield [if splashing is possible]

SKIN PROTECTION:
Use impervious gloves, gloves should be tested to determine suitability for prolonged contact. Use of impervious apron & boots are recommended.

RESPIRATORY PROTECTION:
If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH / MSHA respiratory protection must be provided.

WORK PRACTICES:
Eye wash fountain & emergency showers are recommended.

9. Physical and chemical properties

Physical State	:Homogeneous Liquid

Appearance	:Colourless to Pale Yellow Liquid
Vapor Pressure	:Not Determined
Vapor Density	:Not Determined
Specific Gravity	:1.00 ± 0.05 gm/ml at 25° C
Boiling Point	:Not Determined
Viscosity	: 100 CST at 25° C
Solubility in Water	:Soluble
Percent Volatile	:Not Determined
pH (Value)	:3.0 to 10.0
Pour Point	:Below 0° C

10. Stability and reactivity

Chemical Stability : Stable under normal condition

Conditions to avoid :Keep away from heat, ignition sources & in compatible.

Incompatibilities :
This product may react with strong oxidizing agents. This product may react with reducing agent. This product may react with strong alkalis.

Decomposing Product :
Upon decomposition this product may yield oxides of nitrogen & ammonia, carbon dioxide, carbon mono oxide & other low molecular weight hydrocarbons.

Hazardous polymerization :will not occur

11. Toxicological information

HEALTH EFFECTS: Acute:

Ingestion:
This product is considered to be harmful if swallowed. Ingestion effects may include headache, nausea, vomiting, abdominal pain and central nervous system depression.

Skin: Harmful in contact with skin. May cause moderate to severe irritation.

Eyes: Liquid contact with the eyes can cause severe irritation.

Inhalation:
Harmful by inhalation. Inhalation of vapour may cause respiratory irritation, headache, dizziness, drowsiness and loss of co-ordination.

Chronic:
Repeated or prolonged skin contact may cause defatting of the skin and lead to dermatitis. Frequent or prolonged inhalation exposure may result in liver and kidney disorders.

12. Ecological information

ECOTOXICITY	: DATA NOT AVAILABLE
ENVIRONMENTAL FATE	: DATA NOT AVAILABLE
SOIL ABSORPTION/ MOBILITY	: DATA NOT AVAILABLE

13. Disposal considerations

Consult local, state of federal regulatory agencies for acceptable disposal procedures, & disposal, locations. Disposal in streams or sewers may be prohibited by federal, state & local regulations.

14. Transport information

DOT TRANSPOTATION DATA:
PROPER SHIPPING NAME :
Corrosive Liquid, Basic, Organic N.O.S. (Quaternary Ammonium Compounds)

UN No. :	: 3265
Class :	: 8
PACKING GROUP	: II

15. Regulatory information

US FEDERA REDGULATIONS:
As follows OSHA: Hazardous by definition of hazard communication standard (29CFR 1910.1200)

CERCLA-SARA HAZARD CATEGORY:
This product has been reviewed according to the EPA' hazard categories promulgated under Sections 311 & 312 of superfund amendment & reauthorization act of 1986 (SARA title III) is Considered, under applicable definitions, to meet the following categories.
***** Immediate health hazard
* Chronic health hazard
***** Fire hazard

16. Other information

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

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