Material Safety Data Sheet

Water Injection Bactericide (Amine Type) (RXSOL-81-8172-230)

1. Product and Company Identifaction

Product Name	**Water Injection Bactericide (Amine Type)**
Product Type	**RXSOL-81-8172-230**

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Ingredients	CAS No.	Percent
Quaternary Ammonium Compound	Not Available	10 – 35 %
Surfactant	Not Available	01 – 10 %
Water	7732-18	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.
INHALATION	Iemove 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 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

ENGINEERING CONTROL	Local exhaust ventilation may be necessary to control any air contaminate within their TLVS during the use of this products. Facilities storing or utiliz this material should be equipped with an eye wash facility and a safety show
PERSONAL PROTECTIVE EGVIPMENT	As prescribed in the OSHA standard for personal protective equipm employers must perform a hazard assessment of all workplaces to determ the need for & selection of proper protective equipment for each t 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 prolonged contact. Use of impervious apron & boots are recommended.
RESPIRATORY PROTECTION	If ventilation is not sufficient to effectively prevent buildup of aerosols or vap 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	: 200 CST at 25° C
Solubility in Water	:Soluble
Percent Volatile	:Not Determined
pH (Value)	:8.0 - 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 defecting of the skin and lead to dermatitis. Frequent or prolonged inhalation exposure may result in liver and kidney disorders.

12. Ecological information

ECOTOXICITY	: NA
ENVIRONMENTAL FATE	: NA
SOIL ABSORPTION/ MOBILITY	: NA

13. Disposal considerations

Disposal method:
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. :	: 3267
Class :	: 8
PACKING GROUP	: III

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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