Material Safety Data Sheet

Chlorine Tablet (RXSOL-31-3021-001)

1. Product and Company Identifaction

Product Name	RXSOL-31-3021-001
Product Type	Chlorine Tablet

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / informationon ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Symclosene; trichloroisocyanuric acid; trichloro-1,3,5-triazinetrion	100	87-90-1	201-782-8	R8, R22, R31, R36/37, R50/53	O, Xn, N

*See Section 16

3. Hazards Identification

Odour	Chlorine
Appearance	White, Tablet.
Contact with eyes	Risk of serious damage to eyes. Causes serious eye irritation.
Contact with skin	Causes irritation, Prolonged skin contact will result in defatting of the skin.
Inhalation	May cause respiratory irritation , In cases of severe exposure, shortness of breath may develop.
Contact with Acid	Contact with acids liberates toxic gas. Warning! Do not use together with other products. May release dangerous gases (chlorine).

4. First Aid Measures

Contact with skin	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.Wash with plenty of soap and water.
Contact with eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy todo. Continue rinsing.Get immediate medical advice/attention.

Ingestion	Do not induce vomiting person Give water or milk to drink
Inhalation	Do not induce vomiting person Give water or milk to drink
General	When in doubt or symptoms persist, seek medical attention.Use good personal hygiene practices

5. Fire-fighting Measures

- Non-flammable
- In case of fire: use water for extinction
- DO NOT USE dry extinguishers containing ammonium compounds such as dry powder.

6. Accidental Release Measures

Personal Precautions	- Avoid raising dust - Wear protective clothing as per section 8 - Contact with water may form explosive gases - Evacuate the area and keep personnel upwind
Environmental Precautions	- Avoid release to the environment. - Do not allow to enter public sewers and watercourses - If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
Immediate Actions	Use appropriate containment to avoid environmental contamination (S57).
Clean Up Actions	- Collect as much as possible in clean container for reuse or disposal - Do not absorb spillage in sawdust or other combustible material - Seek expert advice for removal and disposal of all contaminated materials and wastes
Special Precautions	Wear protective clothing as per section 8.

7. Handling and Storage

Handling	- Avoid raising dust - Ensure adequate ventilation - Avoid contact with combustible material - Avoid breathing dust/fume/gas/mist/vapours/spray. - Do not eat, drink or smoke when using this product. - Wash thoroughly after handling.
Storage	- Store away from other materials. - Keep/Store away from clothing/.../combustible materials. - Store in a dry place. Store in a closed container. - Store in a well-ventilated place. Keep cool. - Do not store above 25 °C - Keep only in original container.

8. Exposure controls and personal protection

Exposure Limits	- No exposure limits have been set for this substance.

Exposure controls	- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
Occupational exposure controls	- In case of inadequate ventilation wear respiratory protection. - Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended) - When handling this substance, e.g. sampling, wear goggles giving complete eye protection

9. Physical and chemical properties

Odour	Chlorine
Appearance	Solid, white, tablets
pH	2.7 - 3.3 at 1 % concentration
Boiling point	not applicable
Vapour pressure	not applicable
Vapour density	not applicable
Metling Point	225-230 deg C with decomposition
Completely soluble in water	
Specific gravity	2.19 g/cm3

10. Stability and reactivity

Reactivity
- Oxidising agent
- Warning! Do not use together with other products. May release dangerous gases (chlorine).

Chemical stability
- Decomposes above 200 °C

Possibility of hazardous reactions
- Contact with acids liberates toxic gas.

Conditions to avoid
- Avoid contact with acids and alkalis
- Avoid contact with combustible material
- Avoid contact with foodstuffs
- Avoid contact with reducing agents
- Keep away from heat and sources of ignition

Incompatible materials
- Incompatible with acids and alkalis
- Incompatible with reducing agents
- Contact with water may form explosive gases
- Contact with acids liberates toxic gas.

Hazardous Decomposition Products
- Decomposition products may include carbon oxides
- Decomposition products include chlorine.
- Decomposition products may include phosgene

11. Toxicological information

Toxicological information	- LD50 (oral,rat) 809 mg/kg - LD50 (skin,rabbit) 7600 mg/kg - Irritation to eyes (rabbit) : Corrosive - Irritation to skin (rabbit) : Moderate
Inhalation	- May cause dizziness - Causes coughing - Can cause damage to the mucous membranes - In cases of severe exposure, burning sensation may develop - In cases of severe exposure, delayed pulmonary oedema may develop
Contact with skin	- May cause irritation - In cases of severe exposure, burning sensation may develop - In cases of severe exposure, dermatitis may develop
Contact with eyes	- Causes severe irritation - Can cause damage to the eyes
Ingestion	- The ingestion of significant quantities may cause damage to digestive system - The ingestion of significant quantities may cause burning sensation
Carcinogenicity	No evidence of carcinogenic effects

12. Ecological information

Toxicity	- Very toxic to aquatic life with long lasting effects. - LC50 (bluegill sunfish) 0.20-0.40 mg/l (96 hr) - LC50 (rainbow trout) 0.08-0.37 mg/l (96 hr) - IC50 (algae) 0.5 mg/l (3 hr)
Persistence and degradability	- Biodegradable - Degrades by hydrolysis - Half life under acidic conditions is 8 hours
Bioaccumulation Potential	- Bioaccumulation is insignificant
Ecological information	- Decomposes in water - Large volumes may penetrate soil and contaminate groundwater - Marine pollutant - Water solubility 12 g/l

13. Disposal considerations

Classification	waste must be identified according to the List of Wastes (2000/532/EC)
Disposal considerations	Disposal should be in accordance with local, state or national legislation

14. Transport information

- Not classifiedashazardousfortransport

15. Regulatory information

Risk Phrases	Repeated exposure may cause skin dryness or cracking (R66) Risk of serious damage to eyes (R41)
Safety Phrases	- Refer to current ADR Regulations - Refer to current CPL Regulations - Refer to current EC Directive 82/501/EEC (the Seveso Directive) - The List of Wastes (England) Regulations 2005 apply in the UK

16. Other information

Text of R and S phrase codes used in this safety data sheet:- H272: May intensify fire; oxidizer.; H302: Harmful if swallowed.; H319: Causes serious eye irritation.; H335: May cause respiratory irritation.; H400: Very toxic to aquatic life.; H410: Very toxic to aquatic life with long lasting effects.; R22: Harmful if swallowed; R31: Contact with acids liberates toxic gas; R36/37: Irritating to eyes and respiratory system; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment; R8: Contact with combustible material may cause fire.
The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.