1. Product and Company Identifaction

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Porduct Name

Part Number

Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone	+91 22 20871200 - 1400
Fax	+91 22 27612100 ::::AOH :0091 9821214367
Email	mail@rxmarine.com
Website	www.rxmraine.com

2. Composition	n / Informatio	n on ingredients		www.rxmarine.com
Chemical Name Silver nitrate cryst. ex pure	Cas No xtra 7761-88-8	EC No 231-853-9	Weight 169,88 g/mol	Formula AgNO ₃

Silver nitrate ip RXSOL-60-6125-025

3. Hazards Identification	www.rxmarine.com
Signal Word	Danger
Hazard Statements	H272 May intensify fire; oxidizer. H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

4. First Aid Measures

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General advice If inhaled Show this material safety data sheet to the doctor in attendance. After inhalation fresh air.

Eye Contact	Rinse out with plenty of water. Remove contact lenses
Swallowed	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Skin Contact	In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Inhalation	No data available
Ingestion	No data available
Most important symptoms and effects, both acute and delaye	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special trea	tment. No data available

Indication of any immediate medical attention and special treatment No data available needed

5. Fire-fighting Measures

Flammability	No data available
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given
Special hazards arising from the substance or mixture	Nitrogen oxides (NOx) Silver/silver oxides Not combustible. Fire may cause evolution of: nitrogen oxides Has a fire-promoting effect due to release of oxygen.
Further information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Hazardous combustion products	No data available
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Protective Equipment	No data available
Specific Hazards Arising from the Chemical	No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Spillage	No data available
Personal Protection	Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8
Enviromental Precaution	Do not let product enter drains. Risk of explosion.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb [®]). Dispose of properly. Clean up affected area
Reference to other sections	For disposal see section 13

7. Handling and Storage

Advice on protection against fire and explosion Incompatible materials Hygiene measures Keep away from open flames, hot surfaces and sources of ignition No data available

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

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Advice on safe handling	No data available
Conditions for safe storage, including any incompatibilities	No data available
Storage conditions	No metal containers. Protected from light.Tightly closed. Do not store near combustible materials. Recommended storage temperature see product label.
Storage class	Storage class (TRGS 510) 5.1B Oxidizing hazardous materials
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Advice on general occupational hygiene	No data ^{available}

8. Exposure controls and personal protection

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Exposure controls	Personal protective equipment
Engineering Control	No data available
Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Body Protection	protective clothing
Skin protection	This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Viton® Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: butyl-rubber Minimum layer thickness: 0,7 mm Break through time: 30 min Material tested:Butoject® (KCL 898)
Respiratory protection	Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
Other Protection Measure	No data available

9. Physical and chemical properties

Physical state	Crystals
Colour	Colorless
Odour	No data available
Odor Threshold	No data available
pH	No data available
Melting Point	212 °C
Boiling Point	440 °C - Decomposes on heating
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	Not flammable.
Explosive limits	No data available
Upper/lower flammability or explosive limits	No data available

Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	1 hPa at 107 °C
Viscosity	No data available
Density	4,350 g/cm3
Relative Density	No data available
Specific Gravity	No data available
Partition coefficient	log Pow 5
Explosive properties	No data available
Solubility	No data available
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity Chemical stability

Possibility of hazardous reactions

Conditions to avoid Incompatible materials Hazardus product decomposition

11. Toxicological information

www.rxmarine.com D50 Oral - Rat - male and female - 3.804 mg/kg (OECD Test Guideline Acute toxicity 401) LC50 Inhalation - Rat - male and female - 4 h - > 0.075 mg/l aerosol (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402) Skin corrosion/irritation Skin - reconstructed human epidermis (RhE) Corrosive - 3 - 60 min (OECD Test Guideline 431) (Regulation (EC) No 1272/2008, Annex VI) Serious eye damage/irritation Causes serious eye damage. Risk of permanent damage due to staining of the cornea Respiratory or skin sensitization No data available Carcinogenicity No data available Germ cell mutagenicity Micronucleus test Test system Human lymphocytes Metabolic activation with and without metabolic activation Method OECD Test Guideline 487 Result negative In vitro mammalian cell gene mutation test Test system mouse lymphoma cells Metabolic activation with and without metabolic activation Method OECD Test Guideline Positive results were obtained in some in vitro tests. No data available Reproductive toxicity Specific target organ toxicity- single exposure No data available Additional Information The substance/mixture does not contain components considered to have

ammonium hydroxide azides combustible substances carbides ethanol Fluoroacetylene Hydrazine hydrate acetylidene Sodium hydroxide

Nitromethane Organic Substances phosphorus Millipore- 1.01510 Page 8 of 13 The life science business of Merck operates as MilliporeSigma in the US and Canada phosphorus hydrogen sulfur Titanium Zinc charcoal Activated charcoal Ammonia with ethanol Ammonia with Sodium hydroxide solution powdered magnesium with Water Risk of ignition or formation of inflammable gases or vapours with: arsenic oxidisable substances Exothermic reaction with: nonmetals oxidisable substances iodides strong reducing agents halogen-halogen compounds

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

The product is chemically stable under standard ambient conditions (room

Risk of explosion with Acetaldehyde Acetylene Nitriles Ammonia

Strong heating. Aluminum, Mild steelMetals No data available

No data available

temperature)

Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 52 Days - NOAEL (No observed adverse effect level) - >= 250 mg/kg May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble albuminate of silver)., Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

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Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Toxicity to fish	Semi-static test LC50 - Pimephales promelas (fathead minnow) - 0,0012 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	Semi-static test LC50 - Daphnia magna (Water flea) - 0,00022 mg/l - 48 h (ECHA)
Toxicity	No data available
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Products Biodegradation	No data available
Mobility in soil	No data available
Results of PBT av PvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	Biological effects Forms corrosive mixtures with water even if diluted. Discharge into the environment must be avoided.

13. Disposal considerations

Product Contaminated packaging Waste treatment Method

14. Transport information

ADR/RID:1493 IMDG:1493 IATA:1493
ADR/RID: SILVER NITRATE IMDG: SILVER NITRATE IATA: Silver nitrat
ADR/RID:5.1 IMDG:5.1 IATA: 5.1
ADR/RID:ll IMDG:ll IATA:ll
ADR/RID:Yes IMDG Marine pollutant:Yes IATA:No
Tunnel restriction code (E)
Not classified as dangerous in the meaning of transport regulations.

No data available

No data available

No data available

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the This material safety data sheet complies with the requirements of

substance or mixture Other regulations Chemical Safety Assessment

16. Other information

Other Information

Regulation (EC) No. 1907/2006 Take note of Dir 94/33/EC on the protection of young people at work. For this product a chemical safety assessment was not carried out

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No data available

No data available