1. Product and Company Identifaction

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Product Part No : RXSOL-19-1106-025 Product Type : NITRIC ACID (35 - 38%)

Company Details:

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

Phone : +91 22 65113333 / 5555 / 9999 / 27611360 Fax : +91 22 2781 1318 :::AOH :0091 9821214367

Email : mail@rxmarine.com

2. Composition / Information on ingredients

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 Chemica Name
 CAS #
 % by weight

 NITRIC ACID
 7697-37-2
 35.0-38.0

 WATER
 7732-18-5
 62.0-65.0

3. Hazards Identification

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Eye Can cause permanent eye injury. Symptoms include stinging, tea swelling of eyes. Can injure the cornea and cause blindness.

Skin Can cause permanent skin damage. Symptoms may include redr

swelling of skin, burns, and other skin damage

Swallowing this material may be harmful or fatal. Symptoms ma

stomach and intestinal irritation (nausea, vomiting, diarrhea), above vomiting of blood. Swallowing this material may cause burns and the mouth, throat, and digestive tract. Low blood pressure and shock

result of severe tissue injury.

Inhalation It is possible to breathe this material under certain conditions of har

example, during heating, spraying, or stirring). Breathing this harmful or fatal. Symptoms may include severe irritation

nose, throat, and respiratory tract.

Symptoms of Exposure No Data
Target Organ Effects No Data
Developmental Information No Data
Cancer Information No Data
Other Health Effects No Data

Primary Route(s) of Entry

Inhalation, Skin contact, Eye contact

4. First Aid Measures

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Eyes

If material gets into the eyes, immediately flush eyes gently with water for least 15 minutes while holding eyelids apart. If symptoms develop as a result vapor exposure, immediately move individual away from exposure and ir fresh air before flushing as recommended above. Seek immediate medicattention..

Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wa

clothing before reuse and discard contaminated shoes.

Swallowing

Seek immediate medical attention. Do not induce vomiting. Vomiting v cause further damage to the mouth and throat. If individual is conscious a alert, immediately rinse mouth with water and give milk or water to drink. possible, do not leave individual unattended

Inhalation

If symptoms develop, immediately move individual away from exposure a into fresh air. Seek immediate medical attention; keep person warm a quiet. If person is not breathing, begin artificial respiration. If breathing difficult, administer oxygen.

Note to Physicians

Preexisting disorders of the following organs (or organ systems) may aggravated by exposure to this material: skin, lung (for example, asthma-li conditions).

5. Fire-fighting Measures

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Flash Point Explosive Limit

Autoignition Temperature

Hazardous Products of Combustion

Fire and Explosion Hazards Extinguishing Media

Fire Fighting Instructions

NFPA Rating

Not applicable

Not applicable

No data

May form: acid vapors, nitrogen compounds.

No data

water fog.

Wear a self-contained breathing apparatus with a full facepiece operated positive pressure demand mode with appropriate turn-out gear and cl resistant personal protective equipment. Refer to the personal pro-

equipment section of this MSDS.

Health - 3, Flammability - 0, Reactivity - 0

6. Accidental Release Measures

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Small Spill

Large Spill

Cover the contaminated surface with sodium bicarbonate or a sod mixture (50-50). Mix and add water if necessary to form a slurry. So wash site with soda ash solution. Proper mixing procedure Trained personnel should conduct this procedure. Untrained per removed from the spill area.

Eliminate all ignition sources (flares, flames including pilot lights, Persons not wearing protective equipment should be excluded from clean-up has been completed. Stop spill at source. Prevent from sewers, streams or other bodies of water. Prevent from spreading. notify authorities as required. Pump or vacuum transfer spilled

recovery. Absorb unrecoverable product. Transfer contaminated a other materials to containers for disposal.

7. Handling and Storage

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Handling

Containers of this material may be hazardous when emptied. Since e retain product residues (vapor, liquid, and/or solid), all hazard precar observed. Addition to water releases heat in violent boiling and spattering. Always add slowly and in small an hot water. Never add water to acids. Always add acids to water.

8. Exposure controls and personal protection

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Eye Protection Chemical splash goggles and face shield (8" min.) in compliant

regulations are advised; however, OSHA regulations also permit

glasses. (Consult your industrial hygienist.)

Skin Protection Wear resistant gloves such as: neoprene, polyvinyl chloride, To pro

wear impervious clothing and boots...

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceed to the c

guidelines), a NIOSH/MSHA approved air supplied respirator is adv

proper environmental

control. OSHA regulations also permit other NIOSH/MSHA respressure type) under specified conditions (see your industrial hygier or administrative controls should be implemented to reduce exposure

Provide sufficient mechanical (general and/or local exhaust) venti

exposure below TLV(s).

Exposure Guidelines Component

NITRIC ACID (7697-37-2)

OSHA VPEL 2.000 ppm - TWA

OSHA VPEL 4.000 ppm - STEL ACGIH TLV 2.000 ppm - TWA ACGIH TLV 4.000 ppm - STEL

WATER (7732-18-5)

No exposure limits established

9. Physical and chemical properties

Engineering Controls

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Boiling Point (for product) 185.0 F (85.0 C) @ 760 mmHg

Vapor Pressure (for product) 51.000 mmHg @ 77.00 F

Specific Vapor Density 2.200 @ AIR=1 Specific Gravity 1.424 @ 77.00 F

Liquid Density 11.850 lbs/gal @ 77.00 F

1.424 kg/l @ 25.00 C

Percent Volatiles 100.0 %

Evaporation Rate SLOWER THAN ETHYL ETHER

Appearance No data State LIQUID

Physical Form HOMOGENEOUS SOLUTION

Color CLEAR, YEL-RED-BRN, ACRID ODOR

Odor No data pH No data\

10. Stability and reactivity

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Hazardous Polymerization Product will not undergo hazardous polymerization.

Hazardous Decomposition May form: acid vapors, nitrogen compounds.

Chemical Stability Stable.

Incompatibility Avoid contact with: organic materials, reducing agents, strong alk with most metals to release hydrogen gas which can form explosive n

11. Toxicological information

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12. Ecological information

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No Data

13. Disposal considerations

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Waste Management Information Collect and add slowly to large volume of agitated solution of soda ash and slaked lime. Add neutralized solution to excess running water in accordance with applicable regulations.

14. Transport information

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DOT Information - 49 CFR 172.101

DOT Description:

NITRIC ACID, RED FUMING - HAZARD ZONE B,8,UN2032,I

Container/Mode:

55 GAL DRUM/TRUCK PACKAGE

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

1064 NITRIC ACID

15. Regulatory information

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US Federal Regulations
TSCA (Toxic Substances Control Act) Status
TSCA (UNITED STATES) The intentional ingredients of this
product are listed.
CERCLA RQ - 40 CFR 302.4(a)
Component RQ (lbs)
NITRIC ACID 1000
CERCLA RQ - 40 CFR 302.4(b)