

1. Product and Company Identification

www.rxmarine.com

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

www.rxmarine.com

Chemical Name	CAS #	% by weight
NITRIC ACID	7697-37-2	35.0-38.0
WATER	7732-18-5	62.0- 65.0

3. Hazards Identification

www.rxmarine.com

Eye	Can cause permanent eye injury. Symptoms include stinging, tearing, swelling of eyes. Can injure the cornea and cause blindness.
Skin	Can cause permanent skin damage. Symptoms may include redness, swelling of skin, burns, and other skin damage
Swallowing	Swallowing this material may be harmful or fatal. Symptoms may include stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, vomiting of blood. Swallowing this material may cause burns and irritation of the mouth, throat, and digestive tract. Low blood pressure and shock may result of severe tissue injury.
Inhalation	It is possible to breathe this material under certain conditions of high concentration, for example, during heating, spraying, or stirring. Breathing this material may be harmful or fatal. Symptoms may include severe irritation of the 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

www.rxmarine.com

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

Skin	Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.
Swallowing	Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.
Inhalation	If symptoms develop, immediately move individual away from exposure area into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.
Note to Physicians	Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions).

5. Fire-fighting Measures

www.rxmarine.com

Flash Point	Not applicable
Explosive Limit	Not applicable
Autoignition Temperature	No data
Hazardous Products of Combustion	May form: acid vapors, nitrogen compounds.
Fire and Explosion Hazards	No data
Extinguishing Media	water fog.
Fire Fighting Instructions	Wear a self-contained breathing apparatus with a full facepiece operated in positive pressure demand mode with appropriate turn-out gear and chemically resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.
NFPA Rating	Health - 3, Flammability - 0, Reactivity - 0

6. Accidental Release Measures

www.rxmarine.com

Small Spill	Cover the contaminated surface with sodium bicarbonate or a soda ash slurry (50-50). Mix and add water if necessary to form a slurry. Soak and wash site with soda ash solution. Proper mixing procedure should be followed. Trained personnel should conduct this procedure. Untrained personnel should be removed from the spill area.
Large Spill	Eliminate all ignition sources (flares, flames including pilot lights, etc.). Persons not wearing protective equipment should be excluded from the spill area until clean-up has been completed. Stop spill at source. Prevent from entering sewers, streams or other bodies of water. Prevent from spreading. Notify authorities as required. Pump or vacuum transfer spilled material into containers for recovery. Absorb unrecoverable product. Transfer contaminated material and other materials to containers for disposal.

7. Handling and Storage

www.rxmarine.com

Handling	Containers of this material may be hazardous when emptied. Since it may retain product residues (vapor, liquid, and/or solid), all hazard precautions on the data sheet must be observed. Addition to water releases heat and may result in violent boiling and spattering. Always add slowly and in small amounts to hot water. Never add water to acids. Always add acids to water.
----------	---

8. Exposure controls and personal protection

www.rxmarine.com

Eye Protection	Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit safety glasses. (Consult your industrial hygienist.)
Skin Protection	Wear resistant gloves such as: neoprene, polyvinyl chloride, To prevent skin contact, wear impervious clothing and boots..
Respiratory Protections	If workplace exposure limit(s) of product or any component is exceeded (see OSHA guidelines), a NIOSH/MSHA approved air supplied respirator is advised for proper environmental control. OSHA regulations also permit other NIOSH/MSHA approved respirators (pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure to acceptable levels.
Engineering Controls	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain 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

www.rxmarine.com

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

www.rxmarine.com

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 alkalis, and with most metals to release hydrogen gas which can form explosive mixtures.

11. Toxicological information

www.rxmarine.com

No Data

12. Ecological information

www.rxmarine.com

No Data

13. Disposal considerations

www.rxmarine.com

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

www.rxmarine.com

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

www.rxmarine.com

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)