

1. Product and Company Identification

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Product Name **RXSOL-19-1388**
Product Type **Nitric Acid Lab Reagent**

Company Details:

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2. Composition / Information on ingredients

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Ingredient(s)	CAS Number
NITRIC ACID	7697-37-2
WATER	7732-18-5

3. Hazards Identification

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Potential Health Effects

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, and vomiting of blood. Swallowing may cause burns and destroy tissue in the mouth, throat, and digestive tract. Blood pressure and shock may occur as a result of severe tissue injury.
Inhalation	It is possible to breathe this material under certain conditions of handling, for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to 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

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Eyes	If material gets into the eyes, immediately flush eyes gently with water for 15 minutes while holding eyelids apart. If symptoms develop as a result of exposure, immediately move individual away from exposure and initiate flushing as recommended above. Seek immediate medical attention.
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Skin	Immediately flush skin with water for at least 15 minutes while removing clothing and shoes. Seek immediate medical attention. Wash clothing and discard contaminated shoes.
Swallowing	Seek immediate medical attention. Do not induce vomiting. Vomiting may cause damage to the mouth and throat. If individual is conscious and alert, give small sips of water and give milk or water drink. If possible, do not leave individual unattended.
Inhalation	If symptoms develop, immediately move individual away from exposure to fresh air. Seek immediate medical attention; keep person warm and quiet. If breathing is difficult, 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

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

6. Accidental Release Measures

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Small Spill	Cover the contaminated surface with sodium bicarbonate or a soda ash solution (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 streams or other bodies of water. Prevent from spreading. If run-off is expected, authorities as required. Pump or vacuum transfer spilled product to a container for recovery. Absorb unrecoverable product. Transfer contaminated materials to containers for disposal.

7. Handling and Storage

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Handling	Containers of this material may be hazardous when emptied. Since containers may retain product residues (vapor, liquid, and/or solid), all hazard precautionary data sheet must be observed. Addition to water releases heat which can cause boiling and spattering. Always add slowly and in small amounts. Never add water to acids. Always add acids to water.
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8. Exposure controls and personal protection

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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 irritation 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 respirator is advised in absence of proper environmental controls. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure) under specified conditions (see your industrial hygienist). If engineering and administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to reduce 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

9. Physical and chemical properties

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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 alkalies, Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air..

11. Toxicological information

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No data

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

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)

Materials without a "listed" RQ may be reportable as "unlisted hazardous substance". See 40 CFR 302.5 (b).

SARA 302 Components - 40 CFR 355 Appendix A

Section 302 Component(s)	TPQ (lbs)	RQ (lbs)	Page 6 of 7
NITRIC ACID	1000	1000	

Immediate(X) Delayed() Fire() Reactive() Sudden Release of Pressure()

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s)	- CAS Number	%
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NITRIC ACID 7697-37-2 98.00

International Regulations

Inventory Status Not determined

State and Local Regulations

California Proposition 65 None

New Jersey RTK Label Information - 7697-37-2

NITRIC ACID

Pennsylvania RTK Label Information - 7697-37-2

NITRIC ACID

16. Other information

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The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised in advance of need that the information is current, applicable, and suitable to their circumstances.

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