

Nitric Acid 68%

Part No. RXSOL-20-1106-130 — Generated 10 Oct 2026

1. Product and Company Identification

Product Name : Nitric Acid 68%
Part Number : RXSOL-20-1106-060

Company Details:
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2. Composition / informationon ingredients

Name of Substance	Cas Number	EL
Nitric acid	7697-37-2	23

3. Hazards Identification

Classification according to Regulation (EC) No 1272/2008	Oxidizing liquids (Category 3), H272 Corrosive to Metals (Category 1), H290 Acute toxicity, Inhalation (Category 3), H331 Skin corrosion (Sub-category 1A), H314 Serious eye damage (Category 1), H318 For the full text of the H-Statements mentioned in this Section, see Section 16.
Labelling according Regulation (EC) No 1272/2008	Pictogram Signal Word Danger
H272	May intensify fire; oxidizer
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220	Keep away from clothing and other combustible materials.
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.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Supplemental Hazard information (EU)EUH071	Corrosive to the respiratory tract
Reduced Labeling (= 125ml)	Pictogram Signal Word Danger
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.
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.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
Supplemental Hazard information (EU)EUH071	Corrosive to the respiratory tract.
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.

4. First Aid Measures

General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
In case of eye contact	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
If swallowed	After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.
Most important symptoms and effects, both acute and delayed	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 treatment needed	No data available

5. Fire-fighting Measures

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) Not combustible. Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapours.
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.

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.

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. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning up	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Advice on safe handling	Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition.
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
Storage conditions	No metal containers. Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Do not store near combustible materials.
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

8. Exposure controls and personal protection

Control parameters	Ingredients with workplace control parameters
Personal Protection	Eye protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles Body Protection : Body Protection Skin protection : required Respiratory protection :required when vapours/aerosols 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 ABEK
Control of environmental exposure	Do not let product enter drains.



Gloves



Suit

9. Physical and chemical properties

Physical state	Liquid
Colour	No data available
Odour	No data available
Odor	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No Data Available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available

Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Density	No data available
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10. Stability and reactivity

Reactivity	None
Stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Incompatible materials	Avoid to contact with strong acids Avoid to contact with oxidizing agents. Store away from aldehydes.
Hazardous Decomposition	Decomposition products may include the following materials: Sulphurous oxides (SO _x) Nitrous oxides (NO _x) Ammonia Amines
Condition to Avoid	None Known

11. Toxicological information

Acute toxicity	Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Acute toxicity estimate Inhalation - 4 h - 3,79 mg/l - vapor(Calculation method) Symptoms: Possible symptoms:, mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract Dermal: No data available
Skin corrosion/irritation	Remarks: Mixture causes severe burns. Remarks: Mixture causes severe burns.
Serious eye damage/eye irritation	Remarks: Mixture causes serious eye damage. Risk of blindness!

Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Endocrine disrupting propertiesProduct:	Assessment : 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. RTECS: QU5775000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.
Acute toxicity	Oral: No data availableAcute toxicity estimate Inhalation - 2,65 mg/l - vapor (Acute toxicity estimate according to Regulation (EC) No. 1272/2008) Dermal: No data available
Skin corrosion/irritation	Skin - Rabbit Result: Causes severe burns. Remarks: (IUCLID) Remarks: Causes poorly healing wounds.
Serious eye damage/eye irritation	Eyes - Rabbit Result: Causes burns. Remarks: (IUCLID) Remarks: Causes serious eye damage.
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Test Type: Ames test Test system: Salmonella typhimurium Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

12. Ecological information

Mixture	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB 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 propertiesProduct:	Assessment : 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	No data available

13. Disposal considerations

Waste treatment methods

No data available

14. Transport information

UN	Number	ADR/RID: 2031 IMDG: 2031 IATA: 2031
UN proper shipping name		ADR/RID: NITRIC ACID IMDG: NITRIC ACID IATA: Nitric acid Passenger Aircraft: Not permitted for transport
Transport hazard class(es)		ADR/RID: 8 (5.1) IMDG: 8 (5.1) IATA: 8 (5.1)
Packing group		
Packing group		ADR/RID: II IMDG: II IATA: II
Environmental hazards		
Environmental hazards		ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user		Tunnel restriction code : (E) Further information : No data available

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Authorisations and/or restrictions on use	Regulation (EU) 2019/1148 on the marketing and use of explosives precursors : nitric acid
National legislation	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of accident hazards H2 ACUTE TOXIC SIGALD- 438073 Page 11 of 13 The life science business of MilliporeSigma operates as MilliporeSigma in the US and Canada involving dangerous substances. P8 OXIDISING LIQUIDS AND SOLIDS H2 ACUTE TOXIC P8 OXIDISING LIQUIDS AND SOLIDS
Other regulations	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
Chemical safety assessment	A Chemical Safety Assessment has been carried out for this substance.

16. Other information

Other
Information

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