

Safety Data Sheet

Section 1: Identification.....	2
Section 2: Health Hazard Information.....	2
Section 3: Composition/Information On Ingredients.....	4
Section 4: First Aid Measures.....	5
Section 5: Fire Fighting Measures.....	5
Section 6: Accidental Release Measures.....	5
Section 7: Handling And Storage.....	6
Section 8: Exposure Control/Personal Protection.....	6
Section 9: Physical And Chemical Properties.....	6
Section 10: Stability And Reactivity.....	7
Section 11: Toxicological Information.....	8
Section 12: Ecological Information.....	8
Section 13: Disposal Considerations.....	8
Section 14: Transportation Information.....	8
Section 15: Regulatory.....	9
Section 16: Other Information.....	9

Section 1: Identification

1.1 Product Identifier

Product Name : Nitric Acid 65-70%

CAS No. : 7697-37-2

Chemical Family : Nitric Acid aqueous solution

1.2 Details of the supplier of the safety data sheet

Company : 9920 Pacific Heights Blvd
Suit 150
San Diego
California -92121

1.3 Emergency Telephone number

Emergency phone : +1 (858) 245-0283

Section 2: Health Hazard Information

2.1 GHS Classification

H272	Oxidizing liquids	Category 2
H290	Corrosive to Metals	Category 1
H301	Acute toxicity Oral	Category 3
H330	Acute toxicity Inhalation	Category 2
H314	Skin corrosion / Skin irritation	Category 1B
H318	Serious eye damage / Eye irritation	Category 1
H370	Special target organ systemic toxicity single exposure	Category 1
H373	Special target organ systemic toxicity repeated exposure	Category 2

2.2 Pictograms or Hazard symbols



Signal Word: Danger

May intensify fire. Oxidizer.

May be corrosive to metals.

Toxic if swallowed. Fatal if inhaled.

Causes severe skin burns and serious eye damage.

Health hazard. Causes damage to lungs, eyes, and mucous membranes through prolonged or repeated exposure.

2.3 Precautionary Statements

- | | |
|----------------|--|
| P210 | Keep away from heat, flames, and hot surfaces. No smoking. |
| P220 | Store away from combustible materials. |
| P221 | Take any precaution to avoid mixing with combustibles. |
| P234 | Keep only in original container. |
| P260 | Do not breathe fume/gas/mist/vapors. |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink, or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves, clothing, and eye and face protection. |
| P284 | In case of inadequate ventilation, wear respiratory protection. |
| P301+P330+P331 | If swallowed, rinse mouth. Do not induce vomiting. |
| P301+P310 | If swallowed, immediately call a physician. |
| P303+P361+P353 | If on skin (or hair) take off immediately all contaminated clothing. |

Rinse skin with water.

P304+P340	If inhaled, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes, rinse cautiously with water for several minutes.
P308+P311	If exposed or concerned, call a physician.
P310	Seek medical assistance if exposed.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire use ater spray or fog, carbon dioxide and dry chemical,anything suitable for surroundings to extinguish.
P390	Absorb spillage to prevent material damage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant container.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition/Information On Ingredients

Material		Wt%	Toxicity
Nitric Acid	CAS# 7697-37-2	65-70	2 ppm (TLV)
Water	CAS# 7732-18-5	30-35	
Total		100	

Section 4: First Aid Measures

4.1 Effects Of Overexposure

Eye Contact: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause blindness. Seek medical attention.

Skin Contact: Obtain medical attention: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing, get medical attention. May cause deep, penetrating ulcers of the skin.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Effects may be delayed. May cause chemical burns to the respiratory tract.

Ingestion: May cause severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately.

Section 5: Fire Fighting Measures

Flash Point and Method: Non-flammable

Autoignition Temperature: Not Applicable

Flammability Limits In Air: Not Applicable

Extinguishing media: Water spray or fog, carbon dioxide and dry chemical, anything suitable for surroundings

Special fire fighting procedures: Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Contact with oxidizing reagents may cause extremely violent combustion.

Section 6: Accidental Release Measures

SPILLS, LEAKS: Ventilate area of leak or spill. Clean up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite.

Section 7: Handling And Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe dust, mist, or vapor. Do not expose eyes, skin, or clothing. Keep container closed tightly. Avoid contact with combustibles. Do not use with metal tools or items. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Separate from metals, alkali, and organics.

Section 8: Exposure Control/Personal Protection

Respiratory protection: Wear NIOSH/MESA approved full or half face piece (with goggles) respiratory protective equipment to avoid exposure to vapors above 0.1ppm. A respiratory protection program complying with requirements of 29CFR 1910.134 is recommended.

Ventilation: Where adequate ventilation is not available, use NIOSH approved vapor respirator with dust, fume and mist filters. Local ventilation through fume hoods or laminar flow stations is also preferred. Keep fumes away from strong bases.

Protective gloves: Skin contact should be minimized through use of rubber gloves.

Other protective equipment: Steel tipped shoes/eye wash station/chemical safety chemical retardant clothing.

Eye protection: Safety goggles / face shield.

Section 9: Physical And Chemical Properties

Form	: Liquid
Appearance	: Colorless
Odor	: Acrid
pH	: 1 (1.0 M solution)
Melting point	: -42 °C

Boiling point/Boiling range	: 122 °C
Flash point	: Non-flammable
Ignition point	: Will not ignite
Danger of explosion	: Product is not explosive
Decomposition temperature	: > 150 °C
Vapor density (Air = 1)	: Not available
Volatiles, %	: 100
Vapor pressure at 15° C, mm Hg	: 48 mm Hg at 25 °C
Specific gravity	: 1.41 g/cc
Solubility in / Miscibility	: Completely miscible in water
Evap. Rate (Water = 1)	: Not available

Section 10: Stability And Reactivity

Stability: Stable

Conditions to avoid: Excess heat, light, confined spaces.

Incompatible with: Metals or metal powders, reducing agents, strong bases, acetic acid, alcohol, acetone, aniline, hydrogen sulfide, carbides, organic solvents, combustibles, chromic acid, flammables, cyanides, sulfides.

Hazardous decomposition products: Nitrogen oxides.

Hazardous polymerization: Will not occur.

Conditions to avoid: Excess heat, damp.

Section 11: Toxicological Information

ACUTE:

LC₅₀ (Inhalation, rat): 244 ppm (nitrogen dioxide) (anhydrous substance)

LDLo (oral, human): 430 mg/kg (anhydrous substance) (IUCLID)

Specific symptoms in animal studies: burns to eyes (rabbit), burns to skin (rabbit)

SUBACUTE TO CHRONIC TOXICITY:

Bacterial mutagenicity: Ames test: negative

OTHER DATA:

Strongly corrosive. Vapor inhalation burns mucous membranes; causes coughing, dyspnoea.

Inhalation may lead to oedemas in the respiratory tract. Burns skin, eyes (risk of blindness).

Swallowing results in damage to mouth esophagus, and gastrointestinal tract; risk of perforation; bloody vomiting; death.

Section 12: Ecological Information

Bioaccumulation : There is no evidence of bioaccumulation.

Ecotoxicity : Biologic effects:

Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even when diluted. Does not cause biological oxygen deficit. Hazardous to drinking water supplies.

Fish toxicity: *Gambusia affinis* LC₅₀: 252 mg/L/96 h

Hazard for drinking water: Fish: LC₅₀ > 500 mg/L

Section 13: Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

Section 14: Transportation Information

Class 8, 5.1

PG II

UN 2031

Shipping Name : Nitric Acid

Section 15: Regulatory

Symbol: C, Corrosive.

R-Phrase: 35, causes severe burns

S-Phrases: 23-36/37/39-45 Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

The following component of this product is regulated as toxic a chemical under section 313 or Title III SARA, and 40CFR 372:

Nitric Acid CAS# 7697-37-2

Section 16: Other Information

NFPA Codes:

Health: 3

Flammability: 0

Reactivity: 1

R8: Contact with combustible material may cause fire.

R35: Causes severe burns.

Further information

The information and recommendations in this SDS are to the best of our knowledge, information and belief accurate at the time of publication. Although utmost care is been taken in composition of this text, Highpuris LLC cannot be held responsible for any damage resulting from any possible error in this publication.