


SECTION 1: Chemical Product and Company Information

Product Name: SupraPure Nitric Acid 65%
Pure Substance/Mixture: Mixture
Recommended Use: Laboratory use Only
Company Identification: Atomika
 70 Chattan Road
 Glenferness
 South Africa
 2191
 Cell: +2782 354 7730
 e-mail: Atomika.lab@outlook.com

SECTION 2: Composition, Information on Ingredients

CAS #:	Chemical Name:	EINECS #:	Hazard Symbol:
7697-37-2	Nitric Acid	231-714-2	

SECTION 3: Hazard Identification

EMERGENCY OVERVIEW

Harmful in contact with skin and if swallowed. Causes burns.

Potential Health Effects

Eye: Causes severe eye burns. May cause eye damage.
Skin: Causes skin burns. May cause deep penetrating ulcers of the skin.
Ingestion: Causes gastrointestinal tract burns. May cause perforation of the digestive tract.
Inhalation: May cause severe irritation of the respiratory tract with sore throat and coughing.

SECTION 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately
Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately.
Ingestion: **DO NOT** induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water. Get medical aid immediately
Inhalation: If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove from exposure, lie down. Get medical aid immediately.

SECTION 5: Fire Fighting Measures

General Information: Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus to prevent contact with thermal decomposition products.
Extinguishing Media: CO₂, dry chemical, dry sand and alcohol-resistant foam.

SECTION 6: Accidental Release Measures

Personal Precautions:	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment as required.
Environmental Precautions:	Should not release into the environment. Do not flush into surface water or sanitary sewer system.
Spills / Leaks:	Soak up with inert absorbent material. Sweep up and shovel into suitable containers and for disposal.

SECTION 7: Handling and Storage

Handling:	Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin or on clothing. Do not ingest. If swallowed the seek immediate medical assistance. Do not breathe mist/vapours/spray. Keep away from clothing and other combustible materials.
Storage:	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near the following: combustible materials; incompatible materials; strong bases; reducing agents; metals; finely powdered metals; organic materials; aldehydes; alcohols; cyanides and ammonia.

SECTION 8: Exposure Controls, Personal Protection

Engineering Controls: Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

CAS #: 7697-37-2 (Nitric Acid)

ACGIH TLV	TWA: 2 ppm	STEL: 4 ppm
OSHA PEL	(Vacated) TWA: 2 ppm	(Vacated) STEL: 4 ppm
	(Vacated) TWA: 5 mg/m ³	(Vacated) STEL: 10 mg/m ³
	TWA: 2 ppm	STEL: 5 mg/m ³
NIOSH IDLH	IDLH: 25 ppm	STEL: 4 ppm
	TWA: 2 ppm	STEL: 10 mg/m ³
	TWA: 5 mg/m ³	
Mexico OEL (TWA)	TWA: 2 ppm	STEL: 4 ppm

Personal Protective Equipment (PPE)

Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles. Tight sealing safety goggles. Face protection shield.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Follow the OSHA respirator regulations found in European Standard EN 149. Use an approved respirator if exposure is exceeded or if irritation or other symptoms are experienced.

SECTION 9: Physical and Chemical Properties

Physical State:	Liquid
Colour:	Clear colourless, light yellow
Odour:	Strong acidic
pH:	< 1.0
Vapour Pressure:	0.94 kPa @ 20°C
Viscosity:	Not available
Boiling Point:	121°C @ 1.013hPa
Freezing/Melting Point:	-41°C
Autoignition Temperature:	Not applicable
Flash Point:	Not applicable
Lower Explosion Limits:	Not available
Upper Explosion Limits:	Not available
Decomposition Temperature:	Not available

Solubility in Water: Miscible
Specific Gravity/Density: 1.40
Molecular Formula: HNO₃
Molecular Weight: 63.01

SECTION 10: Stability and Reactivity

Reactive Hazard: Yes
Chemical Stability: Oxidizer: Contact with combustible/organic material may cause fire.
Conditions to Avoid: Incompatible products; combustible material; excess heat; exposure to air or moisture over prolonged periods.
Incompatibilities with Other Materials: Combustible materials; strong bases; reducing agents; metals; finely powdered metals; organic materials; aldehydes; alcohols; cyanides and ammonia
Hazardous Decomposition Products: Nitrogen Oxide (NO_x), thermal decomposition can lead to release of irritating gases and vapours.
Hazardous Polymerization: Hazardous polymerization does not occur.

SECTION 11: Toxicological Information

LD50/LC50: RTECS:
CAS #: 7697-37-2: Inhalation, rat: LC50 = 2 500 ppm
 Oral: LD50 – Not Listed
 Dermal: LD50 – Not Listed
Other: Causes severe burns by all exposure routes.

SECTION 12: Ecological Information

Ecotoxicity: Do not empty into drains. Large amounts will affect pH and harm aquatic organisms.
Persistence and degradability: Miscible with water. Persistence is unlikely based on information available.
Bioaccumulation: There is no data for this product.
Other adverse effects: Will likely be mobile in the environment due to its water solubility.

SECTION 13: Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14: Transport Information

	DOT	ADR/RID	IMDG	ICAO-TI and IATA-DGR
Shipping Name:	Corrosive liquid, acidic, inorganic, n.o.s., nitric acid	Corrosive liquid, acidic, inorganic, n.o.s., nitric acid	Corrosive liquid, acidic, inorganic, n.o.s., nitric acid	Corrosive liquid, acidic, inorganic, n.o.s., nitric acid
Hazard Class:	8	8	8	8
UN Number:	3264	3264	3264	3264
Packing Group:	III	III	III	III

SECTION 15: Regulatory Information

European / International Regulations

Hazard Symbol: C – Oxidizing
 E - Corrosive
 T+ - Toxic
Risk Phrases: R35 – Causes burns.

Safety Phrases:

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
R36 – Irritating to eyes.
R41 – Risk of serious damage to eyes.
S10 - When using do not eat or drink.
S23 - Do not inhale gas/fumes/vapour/spray.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27/28 - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S3/7/9 - Keep container tightly closed in a cool, well-ventilated place.
S45 - In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
S61 - Avoid release to the environment. Refer to special instructions/safety data sheet.

SECTION 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability of any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information to their particular purposes. In no event shall the company be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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