# Scientific Laboratory Supplies - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.0 (Replaces revision 1.2 of 16 April 2021)

Revision date: Date printed: 18 June 2021 16 September 2024

**CHE2672** 

# Section 1. Identification

1.1	Product Identifier	CHE2672		
	Product Name	NITRIC ACID 69% w/w pure 2.5L.		
	CAS Number REACH Registration No	7697-37-2 01-2119487297-23-XXXX		
	Molecular Formula	HNO <sub>3</sub> =63.01		

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

Scientific Laboratory Supplies



Unit 6, Foresters Avenue Fairham Business Park Fairham Nottingham NG11 2AF UNITED KINGDOM

1	<b>Fmergency Telenhone</b>	(08.00-17.00)	0115 9821111
	Email	sales@scientific-la	abs.com
	Fax	0115 9825275	
	Phone	0115 9821111	

# 1.4 Emergency Telephone (08:00-17:00) 0115 9821111 (24hr) 112 (Have this document to hand)

## Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Oxidising liquid, category 3 Skin corrosion/irritation, category 1A Acute toxicity, category 3 (inhalation) H272: May intensify fire; oxidizer. H314: Causes severe skin burns and eye damage. H331: Toxic if inhaled.

#### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word

Hazard Pictograms

Danger

Hazard Statements

May intensify fire; oxidizer. Causes severe skin burns and eye damage. Toxic if inhaled.

Precautionary Statements

Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

Supplemental Hazard Information (EU) Corrosive to the respiratory tract.

## Section 3. Composition

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Nitric acid	7697-37-2	231-714-2	01-2119487297-23-XXXX	69%	Ox. Liq. 3, Skin Corr. 1A, Acute Tox. 3 (I)
	-				

## Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION URGENTLY.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If conscious place in a sitting position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

#### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

C L	Section 5. Fire Fighting

#### 5.1 Extinguishing media

Extinguishing Media	Consider what other flammable materials are present and act accordingly.
Unsuitable Media	Nothing specified.

#### 5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes if involved in a fire.

#### 5.3 Advice for firefighters

Hazards

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

## Section 6. Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

## 6.2 Environmental precautions

Enviromental

Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

#### 6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

Minor Spillage Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Keep well separated from acids, metals, explosives, organic peroxides and ignitable materials.

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term	(8hr TWA)	Short Term 15min	period)
Nitric acid	7697-37-2	69%	-	-	1.0 ppm	2.8 mg/m-3

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

#### 8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.
Hand Protection	Use PVC gauntlets.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

## Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance	Clear colourless to pale yellow fuming liquid.
Odour	Suffocating and irritating.
pH	1 @ 20°C
Boiling Point	122°C
Melting Point	-42°C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	A strong oxidising agent.
Vapour Pressure	9mmHg @ 20°C
Relative Density	1.4200
Water Solubility	Completely soluble in water with moderate increase in temperature.

#### 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

10.1		No. 4-4
10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	No specific conditions.
10.5	Incompatable Materials	Reducing agents. Alkalis. Many organic compounds. Combustible materials.
10.6	Hazardous Decomposition Products	Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

# Section 11. Toxicological Information

#### **11.1 Information on toxicological effects**

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Eyes	The vapour is be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	Both the vapour and liquid will, cause severe burns. The liquid or concentrated vapour will cause immediate severe and penetrating burns. Concentrated solutions will cause deep burns and yellow discolouration of the skin. Dilute solutions will be irritating to the skin.
LD50 Skin	Not available
Ingestion	Ingestion may prove fatal. Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Symptoms may include salivation, thirst, difficulty in swallowing, pain, shock and vomiting.
LD50 Oral	Not available
Inhalation	Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes, nose, throat and respiratory tract. Prolonged exposure to vapour concentrations above the occupational exposure limits may have serious effects with initially no pathological signs. Further exposure may cause acute pulmonary oedema often with a serious outcome.
LD50 Inhalation	2.65mg/l Rat
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	No information is available.
Reproductive Effects	None identified.

# Section 12. Ecological

12.1	Toxicity	Acidic, nutrient for undesirable algae.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	3.7mg/l Rainbow Trout
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

# Section 13. Disposal Considerations

Disposal Methods

Dilute in a large excess of water and carefully neutralise with soda ash, then wash to drain with copious amounts of water.

Contaminated Packaging

Use a licensed waste disposer. Wash out containers with water.

# Section 14. Transport Information

14.1	UN Number	2031	
14.2	Proper Shipping Name	Nitric acid	
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	8 5.1 2 85 E	CORROSIVE 8
14.4	Packing Group	II	
14.5	Environment hazards	See section 12.	
14.6	Special precautions for user	No special precautions required.	
14.7	Transport in bulk	Not transported in bulk.	

## Section 15. Regulatory Information

#### 15.1 Safety, health and environment regulations specific for subtance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Oxidising liquid, category 3; Skin corrosion/irritation, category 1A; Acute toxicity, category 3 (inhalation)		
Signal word	Danger		
Hazard Pictograms			
Hazard Statements	H272, H314, H331 May intensify fire; oxidizer. Causes severe skin burns and eye damage. Toxic if inhaled.		
Precautionary Statements	P280, P260, P301+P330+P331, P303+P361+P353, P304+P340, P305+P351+P338 Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.		
Supplemental Hazard Information (EU)	EUH071 Corrosive to the respiratory tract.		

#### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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