Vickers Laboratories Ltd - Safety Data Sheet

0468

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

Revision: 2.0 Revision date: 18 June 2021 (Replaces revision 1.2 of 16 April 2021) Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 0468

Product Name NITRIC ACID 69% w/w

CAS Number 7697-37-2

REACH Registration No 01-2119487297-23-XXXX

Molecular Formula HNO₃ =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 Vickers Laboratories Ltd



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Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Oxidising liquid, category 3 H272: May intensify fire; oxidizer.

Skin corrosion/irritation, category 1A H314: Causes severe skin burns and eye damage.

Acute toxicity, category 3 (inhalation) H331: Toxic if inhaled.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Hazard Statements

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

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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)
Γ	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 UNGENTLY.

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 Wear protective gloves / eye protection.

aiders

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.

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

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

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

Environmental 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

I	Component	CAS No	Concentration	Workplace Exposure Limits				
				Long Term (8hr TWA)		Short Term 15min period)		
Ì	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

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use PVC gauntlets.

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 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid No specific conditions.

10.5 Incompatable Materials Reducing agents. Alkalis. Many organic compounds. Combustible materials.

10.6 Hazardous Decomposition Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

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 No da

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

13.1 Waste treatment methods

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) 5.1 Transport category 2 ADR Hazard ID 85 **Tunnel Restriction Code** Ε

14.4 Packing Group П

14.5 Environment hazards See section 12.

14.6 Special precautions for

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)

No special precautions required.

Classification Oxidising liquid, category 3; Skin corrosion/irritation, category 1A; Acute toxicity, category 3 (inhalation)

Signal word Danger

Hazard Pictograms







Hazard Statements

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.

EUH071

Supplemental Hazard Information (EU)

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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