# Vickers Laboratories Ltd - SAFETY DATA SHEET - 0468

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

| | |
|---|---|
| Product Name: | NITRIC ACID 69% w/w |
| Product Part Number: | 0468 |
| CAS Number: | 7697-37-2 |
| EC Number: | 231-714-2 |
| REACH Registration Number: | This product is either exempt from REACH or does not meet the minimum volume threshold for a chemical safety assessment (CSA) |
| UFI: | J39U-R74W-9RHC-MKK4 |

1.2 Relevant identified uses of the substance or mixture and uses advised against

| | |
|---|---|
| Use of the substance/ mixture: | For industrial use only |
| Use of the substance/ mixture: | Reagent |

1.3 Details of the supplier of the safety data sheet

| | |
|---|---|
| Name of Supplier: | Vickers Laboratories Ltd |
| Address of Supplier: | Grangefield Industrial Estate<br>Richardshaw Road<br>Pudsey<br>West Yorkshire<br>LS28 6QW<br>UNITED KINGDOM |
| Telephone: | +44 (0)113 236 2811 |
| Email: | safety@viclabs.co.uk |

1.4 Emergency telephone number

| | |
|---|---|
| Emergency Telephone: | +44 (0)113 236 2811 (Mon-Fri 08:00-16:30 (UK))<br>112 (24hr) |

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

CLP: Ox. Liq. 3 Acute Tox. 3 Skin Corr. 1A Met. Corr. 1

2.2 Label elements

GHS03 GHS05 GHS06

Signal Word: Danger

Hazard statements

H272: May intensify fire; oxidiser.
H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
H331: Toxic if inhaled.

Precautionary statements

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## SECTION 2: Hazards identification

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

None.

## SECTION 3: Composition/information on ingredients

3.2 Mixtures

Nitric Acid [C ≤ 70 %]

| | |
|---|---|
| CAS Number: | 7697-37-2 |
| EC Number: | 231-714-2 |
| Concentration: | 65 =< C < 70% |
| Specific Concentration Limits: | Ox. Liq. 3; H272: C ≥ 65 % inhalation: ATE = 2,65 mg/L (vapours) Skin Corr. 1A; H314: C ≥ 20 % Skin Corr. 1B; H314: 5 % ≤ C < 20 % |
| Categories: | Ox. Liq. 3 Acute Tox. 3 Skin Corr. 1A |
| Symbols: | GHS03;GHS06;GHS05 |
| H Statements: | H272; H331; H314; EUH071 |

## SECTION 4: First aid measures

4.1 Description of first aid measures

Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes. Seek immediate medical attention.

Contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Seek immediate medical attention.

Inhalation

Remove patient to fresh air. If breathing is difficult, oxygen should be given by a trained person. Apply artificial respiration only if patient is not breathing. Seek immediate medical attention.

Ingestion

Never give anything by mouth to an unconscious person. Give plenty of water to drink. Do not induce vomiting. Obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

May give off noxious and toxic fumes in a fire. Oxidising and Corrosive.

5.3 Advice for firefighters

Evacuate the area and keep personnel upwind. Wear full protective clothing including chemical protection suit. Wear Breathing Apparatus.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

## SECTION 6: Accidental release measures

Do not breathe vapour/fumes. Evacuate the area and keep personnel upwind. Wear protective clothing as per section 8. Ventilate area. Wear suitable respiratory protection.

6.2 Environmental precautions

Do not allow to enter public sewers and watercourses. If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities.

6.3 Methods and material for containment and cleaning up

Absorb spillage in suitable inert material. Do not absorb spillage in sawdust or other combustible material. Neutralise with Soda ash. Place in sealable container. To clean the floor and all objects contaminated by this material use water.

6.4 Reference to other sections

See Section 8.2.

See Section 13.

## SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breathe vapour/fumes. Keep away from clothing and other combustible materials. Ensure adequate ventilation. Wear protective clothing as per section 8.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and dry. Keep in a cool, dry, well ventilated place. Keep away from acid. Keep away from metals. Keep away from clothing and other combustible materials. Keep away from organic peroxides.

7.3 Specific end use(s)

See Section 1.2.

## SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Substances | CAS Number: | Concentration | WEL (long term): | WEL (short term): |
|---|---|---|---|---|
| Nitric acid 65-70% w/w | 7697-37-2 | 69% | No information available | 1 ppm / 2.8 mg/m³ |

8.2 Exposure controls

Engineering controls should be provided which maintain airborne concentrations as low as practicable. In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus. Wear PVC gloves. Wear goggles giving complete eye protection. Wear suitable protective clothing.

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | liquid |
| Colour: | colourless to yellow fuming |
| Odour: | Acrid odour |
| Melting point/Range: | -42 °C at 760 mm /Hg |
| Boiling Point/Range: | 122 °C at 760 mm /Hg |
| Flammability: | Non-flammable |
| Explosive Properties: | Non-explosive |
| Flashpoint: | >93°C |
| Autoflammability: | not applicable |
| Decomposition temperature: | No information available |
| pH: | 1 at 20 °C |
| Kinematic viscosity: | Not applicable |
| Solubility in water: | Miscible with water Generates heat on addition to water (exothermic) |

## SECTION 9: Physical and chemical properties

| | |
|---|---|
| Partition Coefficient (n-Octanol/Water): | Log Pow - not known |
| Vapour Pressure: | 9mmHg at 20 °C |
| Density: | 1.3937 - 1.4242 g/cm³ at 20 °C |
| Relative vapour density: | No information available |
| Particle characteristics: | Not applicable |
| Oxidising Properties: | Strong oxidising agent |

9.2 Other information

No information available.

## SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Considered stable under normal conditions. May cause or intensify fire; oxidiser.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

No special precautions are required for this product.

10.5 Incompatible materials

Incompatible with alkalis (strong bases). Incompatible with reducing agents. Incompatible with organics. Incompatible with combustible material.

10.6 Hazardous decomposition products

May give off noxious and toxic fumes in a fire. Decomposition products may include nitrogen oxides.

## SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

| | |
|---|---|
| Estimated LD50 (oral) (ATE) : | >2000 mg/kg |
| Estimated LD50 (dermal) (ATE) : | >4000 mg/kg |
| Estimated LC50 (inhalational) (ATE) : | 6.21118 mg/l/4hr (gas/vapour) |

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/irritation

Causes severe burns. Danger of very serious irreversible effects. Vapours or aerosols may cause irritation of eyes, nose and respiratory tract.

Respiratory or skin sensitisation

Vapours or aerosols may cause irritation of eyes, nose and respiratory tract. In cases of severe exposure, chemical oedema may develop.

Germ cell mutagenicity

No evidence of mutagenic effects.

Carcinogenicity

No evidence of carcinogenic effects.

Reproductive toxicity

## SECTION 11: Toxicological information

No evidence of reproductive effects.

STOT (specific target organ toxicity) - single exposure

No information available.

STOT (specific target organ toxicity) - repeated exposure

No information available.

Aspiration hazard

Not applicable.

11.2 Information on other hazards

The ingestion of significant quantities may cause damage to digestive system. The ingestion of significant quantities may cause nausea/vomiting. The product does not contain >= 0.1% ingredients with endocrine-disrupting properties, or having ingredients with properties disrupting the functioning of the endocrine system, in the list established in accordance with the criteria set out in Art. 59 sec. 1 of Regulation 2017/2100/EU or Regulation 2018/605/EU.

## SECTION 12: Ecological information

12.1 Toxicity

May cause acute effects in the aquatic environment.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

miscible with water.

12.5 Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII.

12.6 Endocrine disrupting properties

The product does not contain >= 0.1% ingredients with endocrine-disrupting properties, or having ingredients with properties disrupting the functioning of the endocrine system, in the list established in accordance with the criteria set out in Art. 59 sec. 1 of Regulation 2017/2100/EU or Regulation 2018/605/EU.

12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dilute with a large volume of water. Neutralise with Soda ash before disposal. Wash to waste with plenty of water. Triple rinse drums prior to recycling or disposal.

## SECTION 14: Transport information


14.1 UN number or ID number

UN No.: 2031

14.2 UN proper shipping name

Proper Shipping Name: Nitric acid

## SECTION 14: Transport information

14.3 Transport hazard class(es)

Hazard Class: 8, 5.1

14.4 Packing group

Packing Group: II

14.5 Environmental hazards

See Section 12.

14.6 Special precautions for user

No special precautions are required for this product

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Company): 1

15.2 Chemical safety assessment

A chemical safety assessment is not required under REACH.

## SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:-

EUH071: Corrosive to the respiratory tract.

Other information

This Safety Data Sheet does not constitute a workplace risk assessment. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.

This Safety Data Sheet is provided in compliance with regulation EC 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567.

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