

# Vickers Laboratories Ltd - SAFETY DATA SHEET - 4446

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

### 1.1 Product identifier

Product Name: NITRIC ACID 1.5M  
Product Part Number: 4446  
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: MJ96-N85P-DRHH-C82Q

### 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  
Richardshaw Road  
Pudsey  
West Yorkshire  
LS28 6QW  
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))  
112 (24hr)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

CLP: Skin Corr. 1B

### 2.2 Label elements



GHS05

Signal Word: Danger

Hazard statements

H314: Causes severe skin burns and eye damage.

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.

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

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## SECTION 2: Hazards identification

### 2.3 Other hazards

None.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Nitric Acid [ $C \leq 70\%$ ]

CAS Number: 7697-37-2

EC Number: 231-714-2

Concentration:  $10 \leq C < 13\%$

Specific Concentration Limits: Ox. Liq. 3; H272:  $C \geq 65\%$  inhalation: ATE = 2,65 mg/L (vapours)  
Skin Corr. 1A; H314:  $C \geq 20\%$  Skin Corr. 1B; H314:  $5\% \leq C < 20\%$

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 medical attention if irritation persists.

#### 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.

### 5.3 Advice for firefighters

Evacuate the area and keep personnel upwind. Wear chemical protection suit and positive-pressure breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate the area and keep personnel upwind. Wear protective clothing as per section 8.

### 6.2 Environmental precautions

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## SECTION 6: Accidental release measures

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 spray/mists. 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 clothing and other combustible materials.

### 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 | 7697-37-2   | ~10%          | No information available | 1 ppm / 2.8 mg/m <sup>3</sup> |

### 8.2 Exposure controls



Gloves



Goggles



Suit

No special ventilation is required unless the product is used in a spray form. In case of insufficient ventilation, wear suitable respiratory equipment. 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               |
| Odour:                     | None                     |
| Melting point/Range:       | ~0 °C at 760 mm /Hg      |
| Boiling Point/Range:       | ~100 °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           |

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## SECTION 9: Physical and chemical properties

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| Solubility in water:                     | Miscible with water                        |
| Partition Coefficient (n-Octanol/Water): | Log Pow - not known                        |
| Vapour Pressure:                         | No information available                   |
| Density:                                 | 1.0582 - 1.0765 g/cm <sup>3</sup> at 20 °C |
| Relative vapour density:                 | No information available                   |
| Particle characteristics:                | Not applicable                             |
| Oxidising Properties:                    | None                                       |

### 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.

### 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               |
| LD50 (dermal) :               | >4000 mg/kg               |
| LC50 (inhalation) :           | >20 mg/l/4hr (gas/vapour) |

#### Skin corrosion/irritation

Causes severe burns.

#### Serious eye damage/irritation

Causes severe burns. Danger of very serious irreversible effects.

#### Respiratory or skin sensitisation

Not applicable.

#### Germ cell mutagenicity

No evidence of mutagenic effects.

#### Carcinogenicity

No evidence of carcinogenic effects.

**SECTION 11: Toxicological information**

Reproductive toxicity

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  $\geq 0.1\%$  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**

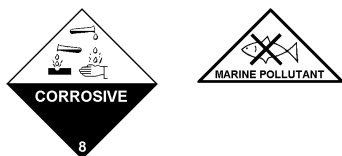
The product does not contain  $\geq 0.1\%$  ingredients with endocrine-disrupting properties, or having ingredients with properties disrupting the functioning of the endocrine system, in the list established in accordance with the criteria set out in Art. 59 sec. 1 of Regulation 2017/2100/EU or Regulation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

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## SECTION 14: Transport information

14.2 UN proper shipping name

Proper Shipping Name: Nitric acid

14.3 Transport hazard class(es)

Hazard Class: 8

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:-

H272: May intensify fire; oxidiser. H331: Toxic if inhaled. 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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