# Vickers Laboratories Ltd - Safety Data Sheet

1269

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

Revision: 1.0 Revision date: 06 May 2022

Date printed: 03 February 2023

### **Section 1. Identification**

1.1 Product Identifier 1269

Product Name NITAL ETCH SOLUTION 3%

CAS Number Mixture

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

#### 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



Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire LS28 6QW

UNITED KINGDOM

 Phone
 44 0113 2362811

 Fax
 +44(0)113 2362703

 Email
 safety@viclabs.co.uk

 Website
 www.viclabs.co.uk

**1.4 Emergency Telephone** (08:00-16:30) +44(0) 113 2362811

(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

Flammable liquid, category 2 H225: Highly flammable liquid and vapour.

Acute toxicity, category 3 (oral)

Acute toxicity, category 3 (dermal)

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

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

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

Spec target organ tox - single, category 1 H370: Causes damage to organs.

#### 2.2 Label elements

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

Signal word Danger

Hazard Pictograms









Highly flammable liquid and vapour. Causes severe skin burns and eye damage. Toxic if swallowed, inhaled and in contact with skin. Causes damage to eyes & central nervous system. Hazard Statements

**Precautionary Statements** Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective

clothing / eye protection. Do not breathe fume/vapours. Do not eat, drink or smoke when using this product. Store

in a well ventilated place. Keep cool. Keep container tightly closed.

# Section 3. Composition

#### 3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Methanol	67-56-1	200-659-6	01-2119433307-44-XXXX	~97%	Flam. Liq. 2,Acute Tox. 3 (O),Acute Tox. 3 (D),Acute Tox. 3 (I),STOT SE 1
Nitric acid	7697-37-2	231-714-2	01-2119487297-23-XXXX	~3%	Ox. Liq. 3,Skin Corr. 1A,Acute Tox. 3 (I)

### Section 4. First Aid

#### 4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL Eyes

ATTENTION.

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 unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen

if available. If breathing stops or shows signs of failing, apply artificial resuscitation. 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 Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed

containers cool.

Unsuitable Media Do not use water jet.

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

Hazards Vapour-air mixtures are explosive.

#### 5.3 Advice for firefighters

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 Ensure no sources of ignition. 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 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 Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in

remote area, then dispose of absorbent as solid chemical waste. 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

All transfer systems should be earthed to prevent accumulation of static electricity. 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 . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

#### 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)			
Methanol	67-56-1	~97%	200.0 ppm	266.0 mg/m-3	250.0 ppm	333.0 mg/m-3		
Nitric acid	7697-37-2	~3%	-	-	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 organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use solvent resistant gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. 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 liquid. Odour Fresh and characteristic.

pH Not applicable

Boiling Point Not available
Melting Point Not applicable
Flash Point Not applicable
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition Not applicable
Not applicable
Not applicable

Explosive Properties Moderate/severe in confined spaces.

Oxidising Properties No

Vapour Pressure Not applicable Relative Density Not available

Water Solubility Completely miscible in water.

#### 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 Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Bromine. Sodium hypochlorite, diethyl zinc, dialkylaluminium solutions, and phosphorous trioxide. Nitric acid,

hydrogen peroxide, sodium and chloroform and potassium tertiary butoxide. Lead perchlorate.

10.6 Hazardous Decomposition None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Products

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Both the vapour and liquid are, very dangerous to the eyes since methanol has a specific effect on the optic nerve

and retina.

Skin Repeated exposure may cause dermatitis. Many of the effects typical of the vapour can result from absorbtion

through the skin.

LD50 Skin Not available

Ingestion Ingestion will cause symptoms resembling those of alcoholic intoxication ie excitation and irritability. After a

latent period of 10-15 hours more serious damage to the central nervous system especially to the optic nerve

occurs. Even if death does not occur permanent blindness may occur.

LD50 Oral Not available

Inhalation Exposure to vapour concentrations above the occupational exposure limits may cause headache, nausea, vomiting

and irritation of the mucous membranes. High concentrations of vapour may damage the central nervous system and cause blindness. Due to the slow metabolism of the toxic metabolites formic acid and formaldehyde the

effects can be cumulative and continued exposure to low levels may cause the above effects.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects High vapour concentrations (10000 ppm) caused increased congenital malformations.

### Section 12. Ecological

**12.1** Toxicity Substantially biodegradable in water, biological oxygen demand (B.O.D.) 5 day 70%. No evidence of inhibition

to the aerobic treatment process at 39500mg/l but evidence of inhibition occurs at concentrations greater than

79000mg/l.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

**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**

#### 13.1 Waste treatment methods

Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of

into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

# **Section 14. Transport Information**

14.1 UN Number 123014.2 Proper Shipping Name Methanol

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) 6.1
Transport category 2
ADR Hazard ID 336
Tunnel Restriction Code D/E
Packing Group II

14.4 Packing Group

**14.5 Environment hazards** See section 12.

14.6 Special precautions for N

ıser

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 Flammable liquid, category 2; Acute toxicity, category 3 (oral); Acute toxicity, category 3 (dermal); Skin

corrosion/irritation, category 1B; Acute toxicity, category 3 (inhalation); Spec target organ tox - single, category 1

Signal word Danger

Hazard Pictograms









Hazard Statements H225, H314, H301+H311+H331, H370

Highly flammable liquid and vapour. Causes severe skin burns and eye damage. Toxic if swallowed, inhaled and in contact with skin. Causes damage to eyes & central nervous system.

Precautionary Statements P210, P280, P260, P270, P403+P235, P233

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. Do not eat, drink or smoke when using this product. Store in a well ventilated place. Keep cool. Keep container tightly closed.

### 15.2 Chemical safety assessment

# 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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