Vickers Laboratories Ltd - Safety Data Sheet

1600

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

Revision: 1.1 Revision date: 16 April 2021
Date printed: 23 September 2023

Section 1. Identification

1.1 Product Identifier 1600

Product Name FORMIC ACID 85% w/w pure

CAS Number 64-18-6

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.

Molecular Formula нсоон =46.03

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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(24hr) 11: (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1A

H314: Causes severe skin burns and eye damage.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements Causes severe skin burns and eye damage.

Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): **Precautionary Statements**

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. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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)
Formic acid	64-18-6	200-579-1	01-2119491174-37-XXXX	85%	Skin Corr. 1A

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 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 unconscious place in the recovery

position. 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 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.

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

Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate Personal Protection

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. Neutralise spill with soda ash, lime, calcium carbonate or sodium

bicarbonate. Wash to drain 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. Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Comp	onent	CAS No	Concentration	Workplace Exposure Limits				
				Long Term (8	Long Term (8hr TWA)		Short Term 15min period)	
Formi	c acid	64-18-6	85%	5.0 ppm	9.6 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 PVC gauntlets.

Eye Protection Use chemical full face shield.

Skin Protection Wear PVC oversuit.

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 Pungent and intensely irritating.

pH Not applicable
Boiling Point 100.8°C
Melting Point -18°C

Flash Point 69°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
Explosive Properties
Oxidising Properties
No.

Vapour Pressure 40mmHg @ 20°C

1.1900 Relative Density

Water Solubility Completely miscible in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

Stable under normal conditions **10.2** Chemical Stability

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 Alkalis. Strong oxidising agents. Mineral acids.

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

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The vapour is irritating to the eyes. The liquid and solutions will cause severe burns. Damage can range from

severe irritation and corneal scarring to permanent blindness.

Skin The liquid and solutions will cause severe burns. Repeated exposure may cause dermatitis.

LD50 Skin Not available

Ingestion Harmful if swallowed. Causes severe corrosion of the mouth, throat and gastro-intestinal tract.

LD50 Oral 1210mg/kg Rat

Inhalation Toxic if inhaled. Exposure to vapour concentrations above the occupational exposure limits will produce severe

irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may seriously damage the

membranes lining the nose, throat and upper respiratory tract.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information The irritant effect provides warning that control of exposure is needed.

Section 12. Ecological

12.1 Toxicity Readily biodegradable in both salt and fresh water, BOD5 =40-51% of ThOD. Practically non-toxic to aquatic

species: LC50, 24hr, bluegills 175 mg/l; EC50 48hr, Daphnia 120 mg/l; EC50, 96 hr Algae 25 mg/l.

LC50 Algal See results above. LC50 Crustacea See results above. LC50 Fish See results above. 12.2 Persistence and See results above

degradability

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

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 Dispose of in a licensed incinerator. Do not dispose of as domestic waste.

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 1779

14.2 Proper Shipping Name Formic acid

14.3 Transport classes

UN classification 8 Subsidiary hazard(s) 3 Transport category 2 ADR Hazard ID 80 Tunnel Restriction Code D/E

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for 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 Skin corrosion/irritation, category 1A

Signal word Danger

Hazard Pictograms



Hazard Statements H314

Causes severe skin burns and eye damage.

Precautionary Statements P280, P260, P303+P361+P353, P304+P340, P305+P351+P338, P301+P330+P331

Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. 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. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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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