Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.1

Revision date: Date printed: 16 April 2021 12 August 2023

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Section 1. Identification

1.1	Product Identifier	0981
1.1	I I Judit Identifier	0781
	Product Name	HYDROCHLORIC ACID 25% w/w
	CAS Number REACH Registration No	7647-01-0 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	HCl =36.46
1.2 I	Relevent identified uses of t	he 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
	VICKERS LABORATORIES	Grangefield Industrial Estate Richardshaw Road Pudsey West Yorkshire LS28 6QW UNITED KINGDOM
	Phone Fax Email Website	44 0113 2362811 +44(0)113 2362703 safety@viclabs.co.uk 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

Skin corrosion/irritation, category 1B Spec target organ tox - single, category 3

H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation.

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. May cause respiratory irritation.

Precautionary Statements

Do not breathe fume/vapours. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Use only outdoors or in a well-ventilated area. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep container tightly closed.

Section 3. Composition

3.1 Substances

Hydrochloric acid 7647-01-0 231-595-7 01-2119484862-27-XXXX 25% Skin Corr. 1A.STOT SE 3 (I)	Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Hydrochione acid 7047-01-0 251-575-7 01-2117404002-27-7AAAA 2570 5km cont. 1A,5101 5E 5 (1)	Hydrochloric acid	7647-01-0	231-595-7	01-2119484862-27-XXXX	25%	Skin Corr. 1A,STOT SE 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.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION.
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 URGENTLY.
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 aiders	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

Ex

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

May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Hazards

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

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

Enviromental

Personal Protection

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 SpillageContain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with
copious amounts of water.Minor SpillageNeutralise 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.

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 Exposur	re Limits	
			Long Term (8hr	TWA)	Short Term 15min	period)
Hydrochloric acid	7647-01-0	25%	1.0 ppm	2.0 mg/m-3	5.0 ppm	8.0 mg/m-3
Exposure data	a source(s)	IOELV: Indicative Occupation	nal Exposure Limit Va	alue.		
8.2 Exposure controls						
Respiratory Protection		Use L.E.V. or natural ventilati maintained chemical cartridge				, use a well
Hand Protecti	on	Use PVC gauntlets.				
Eye Protection	n	Use tightly fitting chemical sp	lash proof glasses or g	goggles.		
Skin Protectio	on	If skin contact or contamination	on of clothing is likely	, protective clothing m	nust be worn.	
Special Hazar	ds	No special precautions require	d.			

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Clear colourless to pale yellow liquid.
11	1 2 1
Odour	Pungent and intensely irritating.
pH	1 @ 20°C
Boiling Point	109°C
Melting Point	-25°C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	No.
Vapour Pressure	11.2509mmHg @ 20°C
Relative Density	1.125
Water Solubility	Completely soluble in water.

9.2 Other information

Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	No specific conditions.
10.5	Incompatable Materials	Alkalis. Potassium permanganate. Reacts with most metals to produce extremely flammable hydrogen gas.
10.6	Hazardous Decomposition Products	Will decompose to emit toxic and irritant fumes of hydrogen chloride.

Section 11. Toxicological Information

11.1 Information on toxicological effects

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Eyes	Both the vapour and liquid will, be extremely irritating to eyes and can cause chemical eye burns.
Skin	The liquid or concentrated vapour will cause burns. Severe ulceration and scarring may occur in serious cases. Repeated exposure may cause dermatitis.
LD50 Skin	Not available
Ingestion	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. High concentrations of vapour will 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	5-10ppm is the threshold for irritation with severe irritation occurring at 50-100 ppm.

Section 12. Ecological

12.1	Toxicity	Neutralised material presents no specific environmental hazard. Dangerous to aquatic organism: causes damag crops and vegetables.	
	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

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

Wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1	UN Number	1789	
14.2	Proper Shipping Name	Hydrochloric acid	
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	8 None 2 80 E	CORROSIVE 8
14.4	Packing Group	Π	
14.5	Environment hazards	See section 12.	
14.6	Special precautions for user	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 1B; Spec target organ tox - single, category 3
	Signal word	Danger
	Hazard Pictograms	
	Hazard Statements	H314, H335 Causes severe skin burns and eye damage. May cause respiratory irritation.
	Hazard Statements (Packs of 100ml/g or less)	H314, H335 Causes severe skin burns and eye damage. May cause respiratory irritation.
	Precautionary Statements	P260, P264, P280, P271, P303+P361+P353, P403+P233 Do not breathe fume/vapours. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Use only outdoors or in a well-ventilated area. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep container tightly closed.
	Precautionary Statements (Packs of 100ml/g or less)	P260, P264, P280 Do not breathe fume/vapours. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection.
2	Chemical safety assessment	

Assessment not required.

15.2

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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