Vickers Laboratories Ltd - Safety Data Sheet

2521

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

Revision: 1.1 Revision date: 16 April 2021
Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 2521

Product Name HYDROCHLORIC ACID 5.0M (5N)

CAS Number 7647-01-0

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 HCl =36.46

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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4hr) 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 2
H315: Causes skin irritation.
Serious eye damage/irritation, category 2
H319: Causes serious eye irritation.
Spec target organ tox - single, category 3
H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms



Hazard Statements Causes severe skin burns and eye damage. May cause respiratory irritation.

Precautionary Statements Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Do not breathe

fumes. Use only outdoors or in a well-ventilated area. If skin irritation occurs: Get medical advice/attention. If eye

irritation persists: Get medical advice/attention.

Section 3. Composition

3.1 Substances

	Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
1	Hydrochloric acid	7647-01-0	231-595-7	01-2119484862-27-XXXX	18%	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. In

severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. 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 Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards Presents no specific fire danger.

5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection 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 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 Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Neutralise 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 Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
Hydrochloric acid	7647-01-0	18%	1.0 ppm	2.0 mg/m-3	5.0 ppm	8.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

Skin Protection 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 Odourless.
pH 1 @ 20°C
Boiling Point 108.6°C
Melting Point -55°C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.0820

Water Solubility Completely miscible in water.

Not applicable

9.2 Other information

Auto Ignition

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 No specific conditions.

10.5 Incompatable Materials Alkalis. Potassium permanganate. Reacts with most metals to produce extremely flammable hydrogen gas.

0.6 Hazardous Decomposition Will decompose to emit toxic and irritant fumes of hydrogen chloride.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin The liquid will be an irritant on brief or occasional exposure. May cause burns on prolonged contact.

LD50 Skin Not available

Ingestion Ingestion of large amounts may produce 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 Presents no significant health hazard by inhalation.

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.

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

12.2 Persistence and No data available.

degradability

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

12.5 Results of PBT & vPvB Assessment not required. assessment

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 Carefully neutralise with a weak sodium hydroxide solution then wash out thoroughly 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 8
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group II

CORROSIVE

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

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 2; Serious eye damage/irritation, category 2; Spec target organ tox - single,

category 3

Signal word Warning

Hazard Pictograms



Hazard Statements H314, H335

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

Precautionary Statements P264, P280, P260, P271, P332+P313, P337+P313

Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Do not breathe fumes. Use only outdoors or in a well-ventilated area. If skin irritation occurs: Get medical advice/attention. If eye

irritation persists: Get medical advice/attention.

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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