# Scientific Laboratory Supplies - 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 17 August 2022

**CHE2148** 

## Section 1. Identification

1.1	Product Identifier	CHE2148
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	Product Name	HYDROCHLORIC ACID 4.0M (4N) 1L.
	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
	Molecular Formula	later date. HCl =36.46
1.2 R	Relevent identified uses of th	ne substance or mixure & uses advised against
	Uses of Material	Chemical for industrial and laboratory use. Not suitable for domestic use.
1.3	Supplier	Scientific Laboratory Supplies
	SCIENTIFIC LABORATORY SUPPLIES	Wilford Industrial Estate Ruddington Lane Wilford Nottingham NG11 7EP UNITED KINGDOM
	Phone Fax Email	0115 9821111 0115 9825275 sales@scientific-labs.com
1.4	Emergency Telephone	(08:00-17:00)0115 9821111(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 2 Serious eye damage/irritation, category 2 Spec target organ tox - single, category 3 H315: Causes skin irritation.H319: Causes serious eye irritation.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 / eve 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

	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Hydrochloric acid 7647-01-0 231-595-	01-2119484862-27-XXXX	14.6%	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 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

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** Enviromental 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 Exposu	re Limits	
			Long Term (8hr	TWA)	Short Term 15min	period)
Hydrochloric acid	7647-01-0	14.6%	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

Respiratory Protection	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.
Hand Protection	Use nitrile gloves or PVC gauntlets.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
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	103°C
Melting Point	-15°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	Not applicable
Relative Density	1.0674
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 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

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 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 MethodsDilute in a large excess of water and carefully neutralise with soda ash, then wash to drain with copious amounts<br/>of water.Contaminated PackagingCarefully neutralise with a weak sodium hydroxide solution then wash out thoroughly with water. Use a licensed<br/>waste disposer.

## Section 14. Transport Information

14.1	UN Number	1789	
14.2	Proper Shipping Name	Hydrochloric acid	
14.3	<b>Transport classes</b> UN classification Subsidiary hazard(s) Transport category ADR Hazard ID	8 None 2 80	
	Tunnel Restriction Code	E	
14.4	Packing Group	II	
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.	
Sec	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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