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# ReAgent

## HYDROCHLORIC ACID LRG 1.18 S.G. MSDS

According to Regulation (EC) No 1907/2006

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME HYDROCHLORIC ACID LRG 1.18 S.G.  
CAS-No. 7647-01-0  
EC No. 231-595-7  
SUPPLIER Reagent Chemical Services  
18 Aston Fields Road  
Whitehouse Industrial Estate  
Runcorn  
Cheshire WA7 3DL  
T: 01928 716903  
F: 01928 716425  
E: [info@reagent.co.uk](mailto:info@reagent.co.uk)  
PRODUCT NO. 1206  
APPLICATION General chemical reagent  
EMERGENCY TELEPHONE Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

### 2 HAZARDS IDENTIFICATION

Causes burns. Irritating to respiratory system.

CLASSIFICATION (1999/45) C;R34. Xi;R37.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
HYDROCHLORIC ACID ...%	231-595-7	7647-01-0	30-60%	C;R34 Xi;R37

The Full Text for all R-Phrases are Displayed in Section 16

EC No. 231-595-7

CAS-No. 7647-01-0

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. If medical attention is required take this information sheet with the casualty.

#### INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

#### INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

#### SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Rinse the skin immediately with lots of water. Get medical attention immediately.

#### EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

## HYDROCHLORIC ACID LRG 1.18 S.G.

**SPECIFIC HAZARDS**

In case of fire, toxic and corrosive gases may be formed.

**PROTECTIVE MEASURES IN FIRE**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**6 ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

**SPILL CLEAN UP METHODS**

Small Spillages: Neutralise with soda-ash. OR Absorb with sand or other inert absorbent. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Collect spillage in sealable containers. Neutralise with aqueous soda ash slurry (CAUTION - VIGOROUS REACTION, HEAT GENERATED) and leave for 24 hours before sealing tightly. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Wash thoroughly after dealing with a spillage.

**7 HANDLING AND STORAGE**

**USAGE PRECAUTIONS**

Avoid inhalation of vapours/spray and contact with skin and eyes.

**STORAGE PRECAUTIONS**

Store in closed original container at temperatures below 20 C. Store away from direct sunlight and moisture

**STORAGE CLASS**

Corrosive storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
HYDROCHLORIC ACID ...%	WEL	1 ppm	2 mg/m <sup>3</sup>	5 ppm	8 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded. If vapours or mists are generated, work in a fume cupboard.

**RESPIRATORY EQUIPMENT**

In case of inadequate ventilation use suitable respirator. Consult with the supplier as to the compatibility of the equipment with the chemical of concern.

**HAND PROTECTION**

Use full length gloves. Rubber or plastic Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER PROTECTION**

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower. Wear rubber apron and full length gloves if handling large amounts. If there is a risk of splashing then wear a face shield.

**HYGIENE MEASURES**

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Pungent		
SOLUBILITY	Miscible with water		
BOILING POINT (°C)	About 85	MELTING POINT (°C)	About -40
RELATIVE DENSITY	1.18	pH-VALUE, CONC. SOLUTION	<1

**10 STABILITY AND REACTIVITY**

**STABILITY**

Stable under normal temperature conditions.

**HYDROCHLORIC ACID LRG 1.18 S.G.****MATERIALS TO AVOID**

Amines. Inorganic hydrides. Metals. Strong oxidising substances. Strong alkalis. Aldehydes. Aluminium. Fluorine Sulphides

**11 TOXICOLOGICAL INFORMATION**

TOXIC CONC. - LC 50                      5 ppm/-- (ihl-rat)

**INHALATION**

Irritating to respiratory system.

**INGESTION**

Corrosive. Even small amounts may cause serious damage.

**SKIN CONTACT**

Causes burns.

**EYE CONTACT**

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. The product contains a substance which is harmful to aquatic organisms.

**ACUTE FISH TOXICITY**

Lethal from 25 mg/l (Hydrochloric acid)

**13 DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

**14 TRANSPORT INFORMATION**

UK ROAD CLASS	8		
PROPER SHIPPING NAME	HYDROCHLORIC ACID		
UN NO. ROAD	1789	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	TUNNEL RESTRICTION CODE	(E)
HAZARD No. (ADR)	80	ADR LABEL NO.	8
HAZCHEM CODE	2R	CEFIC TEC(R) NO.	80GC1-II+III
RID CLASS NO.	8	RID PACK GROUP	II
UN NO. SEA	1789	IMDG CLASS	8
IMDG PAGE NO.	8	IMDG PACK GR.	II
EMS	F-A, S-B	MARINE POLLUTANT	No.
UN NO. AIR	1789	AIR CLASS	8
AIR PACK GR.	II		

**15 REGULATORY INFORMATION****LABELLING**

Corrosive

CONTAINS                      HYDROCHLORIC ACID 36%

**RISK PHRASES**

R34                      Causes burns.

## HYDROCHLORIC ACID LRG 1.18 S.G.

SAFETY PHRASES	R37	Irritating to respiratory system.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
	S51	Use only in well-ventilated areas.
	S24/25	Avoid contact with skin and eyes.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S60	This material and its container must be disposed of as hazardous waste.

### STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

### APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

### GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

### NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

## 16 OTHER INFORMATION

### GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

### REVISION COMMENTS

Change to section 1 and 16.

REVISION DATE 10/06/2009

REV. NO./REPL. SDS GENERATED 1

SDS NO. 11094

### SAFETY DATA SHEET STATUS

Approved.

### RISK PHRASES IN FULL

R34	Causes burns.
R37	Irritating to respiratory system.