



SAFTEY DATA SHEET



HYDROCHLORIC LIQUID DE-SCALE <15%

Revision Date 2nd June 2015

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

Product Name	HYDROCHLORIC LIQUID DE-SCALE <15%
Synonyms, Trade Name	HYDROCHLORIC LIQUID DE-SCALE <15%
Application	Cleaning

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SDS No. C2/413

2. HAZARDS IDENTIFICATION

C;R34. Xi;R37

Classification (EC1272/2008)	Physical: Met. Corr. 1 – H290 Health: EUH031; Skin Corr. 1B – H314; STOT Single 3 – H335 Environmental: Not classified
Classification (67/548)	C; R34, Xi;R37 Full text for all R- Phrases and Hazard statements are displayed in section 16
Labelling in accordance with (EC) No.1272/2008	
Signal Word	Danger
Hazard Statements	H290 May be corrosive to metals H314 Causes severe skin burns and eye damage H335 May cause respiratory irritation
Precautionary Statements	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves / protective clothing/ eye protection / face protection P303+361+353 If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower P304+340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309+311 If exposed or if you feel unwell: Call a Poison Centre or doctor / physician P310 Immediately call a poison centre or doctor/physician. P403 Store in a well-ventilated place

3. COMPOSITION / INFORMATION ON INGREDIENTS

EU Index Number	EC (EINECS) No.	CAS-No.	EU Index No.
017-011-00-1	231-595-7	7647-01-0	017-002-01-X

4. FIRST-AID MEASURES

Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse
Skin Contact	Remove contaminated clothing immediately and wash with soap and water. Get medical attention immediately
Ingestion	Get medical advice immediately! Do Not Induce Vomiting! Immediately rinse mouth and drink plenty of water
Inhalation	Move exposed person to fresh air. Get medical attention if any discomfort continues

5. FIRE-FIGHTING MEASURES

Extinguishing Media Use:	Extinguish with alcohol resistant foam, carbon dioxide, dry powder or water fog
Specific Hazard	Hydrogen chloride (HCl)
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	Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation
Environmental Precautions	Spillages of uncontrolled discharges into watercourses must be Immediately alerted to the Environmental Agency or other appropriate regulatory body
Spill Cleanup Methods	Absorb with inert, damp, non-combustible material then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local authority regulations.

7. HANDLING AND STORAGE

Usage Precautions	Avoid Spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Provide good ventilation. Eye wash facilities must be available when handling this product.
Storage Class	Corrosive storage
Storage Precautions	Keep containers tightly closed. Keep in original containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient Comments

Name	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
Hydrochloric Acid >30%	WEL	1 ppm	2 mg/m ³	5 ppm	8 mg/m ³	

WEL= Workplace Exposure Limits

Protective Equipment

**Process Conditions**

provide eyewash,

Engineering Measures

Provide adequate ventilation. Minimise the risk of inhalation of vapours.

Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand Protection

Use protective gloves made of: Butyl rubber is recommended. The most suitable glove must be chosen in consultation with your glove supplier, who can inform about the breakthrough time of the glove material.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear rubber apron, wear rubber footwear.

Hygiene Measures

Wash at the end of work shift and before eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap & water after work. Eating, smoking and water fountains prohibited in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fuming Liquid		
Colour	Clear to yellow		
Odour	Acidic		
Solubility	Soluble in water		
pH value, (conc. Solution)	1	Boiling Point (°C)	>100
Relative Density	1.127-1.190	Melting Point (°C)	<-29

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal temperature and recommended use
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
Incompatible materials	Strong alkalis. Strong oxidizing substances
Hazardous Decomposition Products	Hydrogen chloride (HCl)

11. TOXICOLOGICAL INFORMATION

Toxic Dose 1-I_d 50	900 mg/kg (oral rabbit)		
Acute Toxicity (Inhalation LD50)	>3124 mg/L (Vapors) Rat 1 hour		
Aspiration Hazard	None		
Ingestion	May cause chemical burns in mouth, oesophagus and stomach		
Inhalation	Irritating to respiratory system. Prolonged inhalation of high concentrations may damage respiratory system		
Skin Contact	Cause burns.		
Eye Contact	Cause burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possible loss of sight		


12. ECOLOGICAL INFORMATION

Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment
Mobility	The product is soluble in water
Bioaccumulation	This product does not contain any substance expected to be bioaccumulating
Degradability	The product is expected to be biodegradable
PBT & vPvB.	This product does not contain any PBT or vPvB substances
Other effects	Not known

13. DISPOSAL CONSIDERATIONS

General Information	Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local waste disposal authority. Do not puncture or incinerate even when empty.
Disposal methods	Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

			
Proper Shipping name	Hydrochloric Acid Solution		
UN No. Road	1789	UN No. Sea	1789
ADR Class No.	8	IMDG Class	8
ADR Class	Class 8: Corrosive substance	IMDG Pack Group	III
ADR Pack Group	III	EMS	F-A, S-B
Tunnel Restriction	(E)	UN No. Air	1789
Hazard No. (ADR)	80	Air Class	8
ADR Label No.	8	Air Sub Class	8
Hazchem code	2P	Air Pack Group	III

15. REGULATORY INFORMATION

General Information	EU Directives: Regulation (EC) No 1907/2006 of the European Parliament and the Council of 18 th December 2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation 76/769/EEC and Commission Directives 91/155/EEC, 93/105/EC and 2000/21/EC including amendments.
Statutory Instruments	The Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716)
Approved Code of Practice	Safety data sheets for substances and preparation. Classification and labeling of substances and Preparations Dangerous for supply
Guidance Notes	CHIP for everyone HSG (108). Workplace Exposure Limits EH40

16. OTHER INFORMATION

REV. No. / REPL. SDS	
Generated	1 st March 2012
SDS No.	C2/413
Safety Data Sheet Status	
Approved.	1 st March 2012
Signature	
Risk Phrases in Full	R34 Causes burns R37 Irritating to respiratory system
Hazard Statements in full	H290 May be corrosive to metals H314 Causes severe skin burns and eye damage H335 May cause respiratory irritation
Notes	This information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of the company's knowledge and belief, accurate and reliable as of date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It

	is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.
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