

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the substance or preparation:

PRODUCT NAME: **HCL**  
CHEMICAL IDENTITY: Inhibited Hydrochloric Acid 32%  
RECOMMENDED USE: Descaler

1.2  
Hydraguard Limited  
Rose Croft  
Newton on Rawcliffe  
Pickering  
North Yorkshire  
YO18 8QE

Tel No: **01751 475964**

### 2. HAZARDS IDENTIFICATION

Causes burns. Irritating to respiratory system  
Classification : C; R34, Xi;R37

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No	CAS No	Content	Classification
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

### 4. FIRST AID MEASURES

**Inhalation:** Move the exposed person to fresh air at once. Get medical attention.  
**Ingestion:** DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. Get medical attention immediately!  
**Skin Contact:** Remove affected person from source of contamination. Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention immediately.  
**Eye Contact:** Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** This product is not flammable. Use fire-fighting extinguishing media appropriate for surrounding materials.  
**Unusual Fire & Explosion Hazards** Containers close to fire should be removed immediately or cooled with water. Use water spray to reduce vapours  
**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 METHODS

**Personal Precautions:** Wear protective clothing as described in Section 8 of this safety data sheet..  
**Environmental Precautions:** Avoid discharge to the aquatic environment.  
**Spill Clean up Methods:** DO NOT TOUCH SPILLED MATERIAL! Neutralise with alkaline material (lime, crushed limestone, sodium bicarbonate or soda ash). Absorb in vermiculite, dry sand or earth and place into containers. Flush area with plenty of water to clean spillage area.

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## 7. HANDLING AND STORAGE:

Usage Precautions:	Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Provide good ventilation. Avoid eating, drinking and smoking when using the product.
Storage Precautions:	Keep upright. Store in tightly closed original container in a dry and cool place. Store under well-ventilated conditions at a temperature below 25°C.
Storage Class	Corrosive storage

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## 8. EXPOSURE CONTROLS

Protective Equipment:	Wear approved Safety goggles or face shield and protective gloves
Process Conditions:	Use engineering controls to reduce air contamination to permissible exposure level.
Respiratory Equipment	If ventilation is insufficient, suitable respiratory protection must be provided
Hand Protection:	Wear protective gloves. The most suitable glove must be chosen in consultation with the glove supplier, who can inform about the breakthrough time of the glove material.
Eye Protection:	Wear approved safety goggles or face shield.
Skin Protection	Wear apron or protective clothing in case of contact
Other Protection:	Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.
Hygiene Measures:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Colourless to yellow
Odour	Pungent characteristic
Solubility	Completely soluble in water
Relative Density	1.27
pH Value, Conc solution	<1
Melting Point (°C)	< -29°C
Vapour Pressure	5 – 120 mbar @ 15°C
Vapour Density (air=1)	1.27

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## 10. STABILITY AND REACTIVITY

Stability	Stable under normal temperature conditions and recommended use.
Conditions to Avoid	Avoid excessive heat for prolonged periods of time.
Materials to Avoid	Strong alkalis.
Hazardous Decomposition Products	Attacks many metals with the liberation of hydrogen gas which is highly flammable and may form an explosive mixture.

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## 11. TOXICOLOGICAL INFORMATION

Inhalation	Irritating to respiratory system.
Ingestion	Causes burns. May cause severe internal injury.
Skin Contact	Causes burns. Corrosive. Prolonged contact causes serious tissue damage.
Eye Contact	Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

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## 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. The product is mildly toxic to aquatic organisms. The product may affect the acidity factor (pH factor) in water with risk of harmful effects to aquatic organisms.
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## 13. DISPOSAL CONSIDERATIONS

General Information	Waste is classified as special waste.
Disposal Methods	Dispose of waste and residues in accordance with local authority requirements
Container	Triple rinse empty container thoroughly with water before disposal.

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## 14. TRANSPORT INFORMATION

### LAND TRANSPORT

UN Road Class	8		
Proper Shipping Name	HYDROCHLORIC ACID		
UN No. Road	1789	UK Road Packing Group:	II
ADR Class No.	8	ADR Class:	Class 8: Corrosive substances
ADR Pack Group	II	ADR Label:	8
Hazard ID No	80	Hazchem Code	2R
RID Class No.	8	RID Pack Group	II
CEFC TEC® No	80GC3-II+III		
UN No Sea	1789	IMDG Class	8
IMDG Pack Gr.	II	EMS	F-A, S-B
MFAG	See Guide	Marine Pollutant	No.
UN No. Air	1789	ICAO Class	8
Air Pack Gr	II		

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## 15. REGULATORY INFORMATION

Labelling	Corrosive
Contains	Hydrochloric Acid 32%
Risk Phrases	R34 Causes burns R37 Irritating to respiratory system
Safety Phrases	S23 Do not breath vapour/spray S24/25 Avoid contact with skin and eyes S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27 Take off immediately all contaminated clothing S36/37/39 Wear suitable protective clothing, gloves and eye/face protection S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). S51 Use only in well ventilated area S60 This material and its container must be disposed of as hazardous waste.
UK Regulatory References	Chemicals (Hazard Information & Packaging) Regulations
Approved Code of Practice	Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

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## 16. OTHER INFORMATION

Revision Date:	3-2008
Risk Phrases in Full	R34 Causes burns R37 Irritating to respiratory system

### DISCLAIMER

This data sheet does not constitute a User's Assessment of Workplace Risk as required by HSW Act, COSHH, Management of Health and Safety at Work Regulations, or other Health and Safety Legislation. This information relates only to the specific material designated 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 the date indicated. However, no warranty guarantee or representation is made 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.