

EASYCHEMICALS

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCES OR PREPARATION.

Product F.WH.
Application De-scaler.

2. COMPOSITION / INFORMATION ON INGREDIENTS.

Chemical Description Clear Red Coloured Liquid With Characteristic Odour.
Hazardous Ingredients

	%	CAS No.	EINICS No.	Supply Class
Hydrochloric Acid	15	7647-01-0	231-595-7	C. R35,R37

3. HAZARDS IDENTIFICATION.

Causes irritation to skin, eyes and respiratory system.

4. FIRST AID MEASURES.

Eyes Immediately gently irrigate with clean water for at least 15 minutes. Seek medical attention.

Skin Wash affected areas with plenty of water. Remove contaminated clothing, avoiding contamination of unaffected areas. Continue washing for at least 10 minutes. Obtain medical attention if blistering occurs. Re-laundry contaminated clothing before re-use.

Ingestion Rinse out mouth with water and give plenty of water to drink. **Do Not** induce vomiting, which may contaminate the lungs. Obtain medical attention.

Inhalation Remove the exposed person to fresh air and give rest. If there is respiratory distress, give oxygen. Apply standard resuscitation techniques if breathing ceases. Seek immediate medical attention.

Other

Notes to Physician Danger of aspiration if ingested and patient vomits. Harmful by inhalation, ingestion and skin contact. Low systemic toxicity. Local corrosive effects predominate. No specific antidote treatment, symptomatic support required. Following significant inhalation observe for 48 hours.

5. FIRE FIGHTING MEASURES.

Extinguishing Media Not considered a fire risk.
Fire & Explosion Hazards Not considered a fire or explosion risk.
Protective Measures Keep containers cool by spraying with water. Fire fighters should wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE).

Personal Precautions Observe normal standards of industrial hygiene. Protective overalls, safety goggles, impervious gloves and rubber boots. Wear a full-face respirator or air fed hood. Instruct others to keep a safe distance.

Environmental Precautions If substance enters watercourse or sewers, inform police, fire brigade and local water authority immediately.

Recovery Absorb in an inert material and collect up into suitable containers for disposal. Substantial spillages in public places require special consideration. Such incidents should be dealt with in accordance with the TREMCARD system. Ventilate area thoroughly. Flush away residues with copious amounts of water.

7. STORAGE AND HANDLING (IN NORMAL USE).

Storage Store away from alkalis, combustible substances and readily oxidisable materials.
Handling Observe normal standards of industrial hygiene. Avoid contact with skin, eyes and clothing. Safety showers and eyewash facilities should be provided in areas where accidental exposure is possible.
Ventilation General or local exhaust ventilation should be used to control airborne levels (aerosols and mists).

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (NORMAL USE).

Occupational Exposure Limits

Name	8Hr TWA	10 min	Type	Ref
Hydrochloric Acid		5 ppm	OES	ESO29

Engineering Measures Engineering contact to plant should only be considered, if contact parts have been cleaned in accordance with accepted recommendations.

Personal Protective Equipment

Respiratory	In case of insufficient ventilation, wear suitable respiratory device.
Hand	Chemical resistant gloves.
Eyes	Eye goggle and/or face shield.
Other	In cases where significant exposure is possible breathing apparatus should be worn.

9. PHYSICAL / CHEMICAL PROPERTIES.

Appearance	Clear red coloured liquid	Odour	Pungent/Characteristic
pH (as delivered)	<1	Viscosity	<30 mPas
Freezing Point	Approx. 0°C.	Freeze Thaw Recovery	N/A
Melting Point	< 0°C	Boiling point	108.6°C
Flash Point	N/A	Vapour Pressure	N/D
Vapour Density	N/D	Relative Density (SG)	Approx. 1.070
Solubility	Complete in water.		

10. STABILITY AND REACTIVITY.

Stability	Acid strength will decrease on ageing.
Conditions to Avoid	Reacts strongly with electropositive metals causing corrosion and liberating flammable hydrogen gas.
Materials to Avoid	Keep away from alkalis and oxidisers.
Recommended Materials for Equipment	Polypropylene.
Hazardous Decomposition Products	Will liberate hydrogen if in contact with alkali metals.

11. TOXICOLOGICAL INFORMATION.

Acute Effects	
Eyes	Severely irritating to the eyes. If not treated immediately permanent damage may occur.
Skin	Irritating to the skin. May cause serious skin burns if not washed off immediately.
Ingestion	Corrosive if swallowed. Causes irritation of the mouth, throat, nose and gastrointestinal tract.
Inhalation	Irritates the respiratory tract, effects are mainly transitory and reversible. Severe overexposure will result in coughing, wheezing, shortness of breath, chest pain and may cause lung damage.
Chronic Effects	Prolonged or frequent exposure to concentrations above OES causes tooth erosion and may cause damage to mucous membranes and lungs.

12. ECOLOGICAL INFORMATION.

Mobility	No data available.
Persistence & Degradability	No data available.
Bioaccumulation	No data available.
Aquatic Toxicity	Toxic to aquatic forms. 280 ppm in fresh water and 100 ppm in salt water can be lethal lowering of pH to below 5 will induce fatalities in aquatic life.
Other	No data available.

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13. DISPOSAL CONSIDERATIONS.

Dispose of in a safe way. Dispose of through an Authorised Contractor to a Licensed Site. Controls of Pollution (Special Waste) Regulations 1980 apply.

14. TRANSPORT INFORMATION (REGULATIONS).

Transport Classification Not classified as hazardous for transport.

15. REGULATORY INFORMATION (Supply & Labelling).

Supply Classification Irritant.

Risk Phrases R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases S2 Keep out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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 the label where possible).

Other Applicable Regulations COSHH Regulations 1988, CHiPS Regulations 1993.

NOTE: This data sheet does not constitute a users assessment of workplace risk as required by HSW act, COSHH, Management of Health & Safety at Work Regulations or other health and safety legislation.

16. OTHER INFORMATION.

Legal Disclaimer The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. EasyChemicals Ltd do not accept any liability whatsoever arising out of the use of the information, or any use, application, adaptation or processing of the product described therein.

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