



Clemas & Co Ltd

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Descaler

This is a concentrated product based on hydrochloric acid.

PRODUCT CODE: E1MIA

Product Description

This product consists of commercial hydrochloric acid to which an inhibitor has been added to reduce metal corrosion during de-scaling operations.

Directions

The concentrated acid is normally diluted with water before use. For de-scaling operations dilute and apply in accordance with the instructions given by the manufacturers of the equipment concerned.

This material will affect acid sensitive surfaces such as nylon and some enamels. Not recommended for use on Stainless Steel. Do not mix with other products. Please refer to product safety data sheet before use. Use only as directed.

Health and Safety

CHIP Classification: Corrosive

U.N. Number 1760.

R34 Causes burns.

R37 Irritating to respiratory system.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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

S28 After contact with skin, wash immediately with plenty of water.

S2 Keep out of reach of children.

PRODUCT SAFETY DATA SHEET

IDENTIFICATION

Product Name: Descaler
Description: Heavy duty acidic descaler.
Code: E1MIA
Supplier: Clemas & Company Limited
Units A3 & A4
Northway Trading Estate
Tewkesbury
Glos GL20 8JH
Tel: 01684 850777
Fax: 01684 850707

COMPOSITION/INFORMATION INGREDIENTS

Hydrochloric acid 17-2-1 15-30% C R34 R37

HAZARDS IDENTIFICATION

CHIP CLASSIFICATION: Corrosive

EYE HAZARD: Causes burns.

SKIN HAZARD: Causes burns.

RESPIRATORY HAZARD: Irritating to respiratory tract.

FLAMMABILITY HAZARD: Not combustible

OTHER HAZARDS: Contact with hypochlorite (bleach) liberates toxic chlorine gas.

FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with water, holding eyelids apart, for at least 10 minutes. Seek medical assistance immediately.

SKIN CONTACT: Remove contaminated clothing. Wash skin thoroughly with water and seek medical attention immediately.

INHALATION: In case of overexposure, remove to fresh air, keep warm and at rest. Seek medical attention immediately.

INGESTION: Do not induce vomiting. If conscious, give water to drink and seek medical assistance immediately.

FIRE FIGHTING MEASURES

May produce acidic fumes in fire.

ACCIDENTAL RELEASE

Small quantities, flush to foul sewer with a large quantity of water. Large quantities, neutralise with soda ash and flush to foul sewer or transfer to containers to containers for disposal. Take precautions to avoid contact. Provide ventilation.

HANDLING AND STORAGE

Store in a cool, dry place, protected from frost and away from alkalis and strong oxidising agents. Store upright in original containers. Shelf life: 24 months in good conditions.

EXPOSURE CONTROLS/PERSONAL PROTECTION

These measures are suggested on the basis of general use methods and may not be appropriate to all potential users of the product. The user responsible for carrying out a full risk assessment of their specific processes and systems of work.

EYE PROTECTION: Wear a full face visor to BS EN 166 39B.

HAND PROTECTION: Wear pvc or latex gloves. Exact choice of glove depends on specific risk assessments.

BODY PROTECTION: As necessary to prevent contact.

RESPIRATORY PROTECTION: Use in a well ventilated area. If high vapour/spray mist concentrations are likely, fume extraction may be required.

Occupational Exposure Limit

Hydrogen Chloride 2 mg/m³ OES 8 hour TWA

PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear colourless to yellow liquid.

Odour: Sharp, acidic.

pH: 1% in water (typical) 1.4

Boiling Point: 57°C

Melting Point: Not applicable

Flash Point: Not applicable

Auto-ignition temp: Not applicable

Explosive properties: Not applicable

Oxidising properties: Not applicable

Vapour pressure: 150mbar at 20°C

Relative density at 20°C (typical): 1.138

Solubility: Miscible with water

Viscosity: Free flowing

STABILITY & REACTIVITY

Conditions to avoid: Extremes of temperature.

Contact with reactive metals liberates hydrogen gas.

Materials to avoid: Incompatible with strong oxidising agents and alkalis. Do not mix with hypochlorite (bleach).

Hazardous decomposition products: None known.

TOXICOLOGICAL INFORMATION

Eye Contact: Will cause severe irritation and damage.

Skin Contact: Causes burns.

Inhalation: Irritating to respiratory tract.

Ingestion: Moderate toxicity. Will cause severe irritation and damage to gastro-intestinal tract due to acidity.

Long term: Based on current knowledge, no long term effects are anticipated if used correctly.

ECOLOGICAL INFORMATION

Water based product. All organic ingredients are biodegradable when well diluted. May affect aquatic organisms due to low pH if released into water courses untreated.

DISPOSAL CONSIDERATIONS

Dispose of surplus product and packaging via a licensed chemical waste contractor.

TRANSPORT INFORMATION

Transport classification: Corrosive

UN Number 1760. Transport Class: 8.

Packaging Group: 3

REGULATORY INFORMATION

CHIP Classification: Corrosive

Please see front of data sheet.

This product should be stored, handled and use in accordance with good industrial practice and in conformity with legal regulations. The information this data sheet is based on the present state of our knowledge and is intended to describe products from the point of view of safety requirements are thus should not be constructed as guaranteeing specific properties. It is for the users to satisfy themselves of the suitability of this product for their own applications.

E1MIA . Wednesday, January 16, 2008