



# Clemas & Co Ltd

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## Acid Descaler

**PRODUCT CODE: ADF**

### Product Description

This product is suitable for the fast, efficient cleaning and de-scaling of enamel sanitary ware, metal parts, cooling coils and steam cleaning plant. Acid descaler is based on hydrochloric acid for rapid descaling.

### Directions

To remove scale and stains from sanitary ware apply to the soiled area and leave for as long as practical, preferably overnight, rinse well.

For descaling, apply for just long enough to release the scale. Rinse well with clean water. For ultrasonic cleaning and descaling of metal parts, dilute with up to ten equal volumes of water.

This material will affect acid sensitive materials 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

Product risk and safety phrases

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

S2 Keep out of reach of children.

## PRODUCT SAFETY DATA SHEET

### IDENTIFICATION

**Product Name:** Acid Descaler  
**Product Code:** J1ADF  
**Supplier:** Clemas & Company Limited  
Unit 5  
Ashchurch Business Centre  
Alexandra Way  
Tewkesbury  
Glos GL20 8NB  
Tel: 01684 850777  
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### COMPOSITION/INFORMATION INGREDIENTS

Hydrochloric acid 1-10%

### HAZARDS IDENTIFICATION

**CHIP Classification:** This product is not classified as hazardous under CHIP regulations.

**EYE HAZARD:** Will cause discomfort.

**SKIN HAZARD:** Prolonged or repeated contact may cause irritation/dryness.

**RESPIRATORY HAZARD:** Not a hazard in normal use. Breathing spray mist may cause irritation.

**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 if irritation persists.

**SKIN CONTACT:** Remove contaminated clothing. Wash skin with water and seek medical attention if irritation persists.

**INHALATION:** If irritation occurs 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:** Not applicable. 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 for disposal.

**HANDLING & STORAGE:** Store in a cool, dry place, protected from frost and away from alkalis and strong oxidising agents. Store upright in original containers.

### 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 eye protection to BS EN 166 1F if splashing is likely.

**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:** Avoid breathing spray mist, wear a protective mask to EN149 if necessary.

**OTHER PROTECTION:** N/A

### OCCUPATIONAL EXPOSURELIMIT

**Hydroaen Chloride:** 2ma/m<sup>3</sup> OES 8 hour TWA

### PHYSICAL & CHEMICAL PROPERTIES

**Appearance:** Clear colourless liquid.

**Odour:** Characteristic. pH 1.8 1% in water (typical)

**Boiling Point:** 100°C

**Melting Point:** Not applicable

**Flash Point:** Not applicable

**Auto-ignition temp:** Not Applicable

**Explosive properties:** Not Applicable

**Oxidising properties:** Not Applicable

**Vapour pressure:** 17.5 mm Hg at 20°C

**Relative density at 20°C (typical):** 1.032

**Solubility:** Miscible with water

**Viscosity:** Free flowing

### STABILITY & REACTIVITY

**Conditions to avoid:** Extremes of temperature.

**Materials to avoid:** Incompatible with strong oxidising agents and alkalis.

**Hazardous decomposition products:** None known.

### TOXICOLOGICAL INFORMATION

**Eye Contact:** Will cause irritation.

**Skin Contact:** Prolonged or repeated contact may cause irritation/dryness.

**Inhalation:** Not a hazard in normal use. Breathing fine mist may cause irritation.

**Ingestion:** Moderate toxicity, will cause irritation to gastro-intestinal tract.

**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

Process effluent can normally be discharged to foul sewer (subject to consent limits. Neutralisation may be require Large quantities, dispose via a licensed chemical waste contractor.

Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

### TRANSPORT INFORMATION

Transport Classification: Not classified.

UN number not classified

### REGULATORY INFORMATION

**CHIP Classification:** This product is not classified as hazardous CHIP regulations.

### OTHER INFORMATION

R phrases relating to ingredients (see section 2).

R34 causes burns.

R37 irritating to respiratory system.

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.