

SAFETY DATA SHEET according to regulation (EC) No.1907/2006

SECTION 1: Identification of the substance/mixture and company

1.1. Product Identifier

Product code: E1MIA

Name: Descaler

1.2. Product Uses

Heavy duty acidic descaler. This material will affect acid sensitive surfaces such as nylon and some enamels. Not recommended for use on Stainless Steel.

1.3. Supplier

Quadralene Ltd
Bateman Street
Derby
DE23 8JL

Phone: 01332 292500

Web: www.quadralene.co.uk

Fax: 01332 295941

Email: info@quadralene.co.uk

1.4. Emergency telephone number

Emergency telephone number: 01332 292402

SECTION 2: Hazards identification (Undiluted product)

2.1. Classification of the mixture

According to 1272/2008

Health Hazards: Eye Dam. 1, Skin Corr. 1B, STOT SE 3

Physical Hazards: Met. Corr. 1

Environmental Hazards: Not Classified

2.2. Label elements

According to 1272/2008

Danger



H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H335 May cause respiratory irritation

H290 May be corrosive to metals

P260 Do not breathe mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

P271 Use only outdoors or in a well-ventilated area. P234 Keep only in original container.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/ information on ingredients

Material	CAS number	Level	Hazards (see section 16)	
Hydrochloric Acid	17-2-1	15-30%	Skin Corr. 1B, STOT SE 3	H314 H335

SECTION 4: First aid measures

4.1. Description of 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 with water and seek medical attention immediately.
- Inhalation: In case of overexposure, remove to fresh air, keep warm and at rest, seek medical assistance immediately.
- Ingestion: Do not induce vomiting. If conscious, give water to drink. Seek medical assistance immediately.

First aider PPE: As required to prevent contact. See section 8.2.

4.2. Most important symptoms and effects, both acute and delayed

- Eye hazard: Will cause severe irritation and damage.
- Skin hazard: Causes burns.
- Respiratory hazard: Irritating to respiratory system.
- Other hazards: Contact with hypochlorite (bleach) liberates toxic chlorine gas.

4.3. Indication of any immediate medical attention and special treatment needed

No special treatment or attention required additional to section 4.2.

SECTION 5: Fire fighting measures

Flammability hazard: Not combustible.

5.1. Extinguishing media

No special requirements. As appropriate for the fire.

5.2. Special hazards arising from the mixture

No specific hazards arising from the mixture. May produce acidic fumes in fire.

5.3. Advice for firefighters

No special measures arising from the mixture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Take precautions to avoid contact. Use Personal Protective Equipment as detailed in section 8
Provide ventilation. Spillage may make floors slippery. Keep the area clear. Observe regulations.

6.2. Environmental precautions

Prevent spills from entering water courses.

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

Observe the advice given in sections 8 and 13

SECTION 7: Handling and storage

Shelf life: 24 months in original sealed containers.

7.1. Precautions for safe handling

Do not mix with other products. Observe good industrial hygiene.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place protected from frost and away from alkalis and strong oxidising agents. Store upright in original containers. Recommended storage temperature 5-25°C.

7.3. Product Uses

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits

Hydrogen Chloride 2 mg/m³ WEL 8 hour TWA (UK EH40)

8.2. Exposure controls

These measures are suggested on the basis of general use methods and may not be appropriate to all potential uses of the product. The user is 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 concentrations are likely, fume extraction may be required.

Other protection:

Personal protective equipment:



Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out.

Environmental protection: Prevent mixture from entering water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Clear colourless to yellow liquid.

Odour: Sharp, acidic.

pH (typical): 1.4 1% in water (typical).

Initial boiling point: 57°C.

Flash point: Not applicable.

Auto-ignition temp: Not applicable.

Viscosity: Free flowing.

Explosive properties: Not applicable.

Oxidising properties: Not applicable.

Vapour pressure: 150 mbar at 20°C.

Solubility: Miscible with water.

Relative density at 20° C (typical): 1.138

9.2. Other information

SECTION 10: Stability and reactivity

- 10.1. Reactivity** Incompatible with strong oxidising agents and alkalis. Do not mix with hypochlorite (bleach) or other preparations.
- 10.2. Chemical stability** Stable under recommended storage conditions.
- 10.3. Possibility of hazardous reactions** No hazardous reactions are expected to occur.
- 10.4. Conditions to avoid** Extremes of temperature. Contact with reactive metals liberates hydrogen gas.
- 10.5. Incompatible materials** Incompatible with strong oxidising agents and alkalis. Do not mix with hypochlorite (bleach) or other preparations.
- 10.6. Hazardous decomposition products** None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- Acute toxicity: Does not contain any ingredients classified as acutely toxic.
- Skin corrosion/ irritation: Mixture is classified as Skin Corr. 1B. See section 2.
- Serious eye damage/ irritation: Mixture is classified as Eye Dam. 1. See section 2.
- Respiratory or skin sensitisation: Does not contain any ingredients classified as sensitising.
- Germ cell mutagenicity: Does not contain any ingredients classified as mutagenic.
- Carcinogenicity: Does not contain any ingredients classified as eye corrosive.
- Reproductive toxicity: Does not contain any ingredients classified as toxic for reproduction.
- STOT single exposure: Mixture is classified as STOT SE 3. See section 2.
- STOT repeated exposure: Does not contain any ingredients classified as STOT RE.
- Aspiration toxicity: Does not contain any ingredients classified as Asp Tox.

Routes of exposure/ symptoms

- Eye contact: Will cause severe irritation and damage.
- Skin contact: Causes burns.
- Inhalation: Irritating to respiratory system.
- Ingestion: Moderate toxicity, will cause irritation and damage to gastro-intestinal tract due to acidity.

SECTION 12: Ecological information

- 12.1. Toxicity** May affect aquatic organisms due to low pH if released into water courses untreated.
- 12.2. Persistence and degradability** Water based product. All organic ingredients are biodegradable when well diluted.
- 12.3. Bioaccumulative potential** Not expected to bioaccumulate
- 12.4. Mobility in soil** This product has high water solubility
- 12.5. Results of PBT and vPvB assessment** Contains no ingredients classified as PBT or vPvB.
- 12.6. Other adverse effects** No other adverse effects are anticipated.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

- 14.1. UN number** 1760 **14.2. UN proper shipping name** Corrosive Liquid, N.O.S.
- 14.3. Transport hazard class(es)** 8 **14.4. Packing group** 2
- 14.5. Environmental hazards** Not classified as environmentally hazardous for transport
- 14.6. Special precautions for user** No specific precautions.
- 14.7. Transport in bulk according to Annex II of MARPOL 7 3/78 and the IBC Code** Not available for bulk transport.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture

Contents according to (EC) regulation No.648/2004 on detergents:

15.2. Chemical safety assessment A chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements relating to ingredients (see section 3)

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation

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This product should be stored, handled and used in accordance with good industrial practice and in conformity with legal regulations. The information in 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 and thus should not be construed as guaranteeing specific properties. It is for users to satisfy themselves of the suitability of this product for their own applications.

