



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name **MEGA ACID CLEANER**

Product number 500-172-2 and 500-172-3

### 1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses

Metal surface treatment

### 1.3. Details of the supplier of the safety data sheet

Supplier Mega Electronics Ltd  
 The Grip Ind Est  
 Linton, Cambridge  
 CB21 4XN  
 Fax: 01223 893900

**1.4 Emergency Telephone:** 01223 893900 (Mon-Fri 8.30-17.00) sales@megauc.com

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification

Physical hazards Not Classified  
 Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318  
 Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xi;R36/38.

### 2.2. Label elements

#### Pictogram



Signal word Danger

Hazard statements H315 Causes skin irritation.  
 H318 Causes serious eye damage.

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Precautionary statements	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/doctor.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.</p>
Contains	HYDROCHLORIC ACID

2.3. Other hazards

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

HYDROCHLORIC ACID		1-5%
CAS number: 7647-01-0	EC number: 231-595-7	REACH registration number: 01-2119484862-27-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Met. Corr. 1 - H290	C:R34 Xi:R37	
Skin Corr. 1B - H314		
STOT SE 3 - H335		
STOT SE 3 - H335		

FORMIC ACID		1-5%
CAS number: 64-18-6	EC number: 200-579-1	REACH registration number: 01-2119491174-37-XXXX
Skin Corr. 1A - H314	Classification (67/548/EEC or 1999/45/EC)	
Eye Dam. 1 - H318	C:R35	

The Full Text of the hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Remove affected person from source of contamination. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention.
Skin contact	Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

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Skin contact	Irritating to skin.
Eye contact	Causes serious eye damage.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture 5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

**SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not touch or walk into spilled material. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Inform authorities if large amounts are involved.

6.4. Reference to other sections SECTION 7:**Handling and storage**7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 5°C and 30°C.

Storage class Chemical storage. 7.3.Specific end use(s)**SECTION 8: Exposure Controls/personal protection**8.1. Control parametersOccupational exposure limits

## HYDROCHLORIC ACID

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m<sup>3</sup>

## FORMIC ACID

Long-term exposure limit (8-hour TWA): WEL 5 ppm 9.6 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

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## Ingredient comments

WEL = Workplace Exposure Limits

HYDROCHLORIC ACID (CAS: 7647-01-0)

DNEL	Workers - Inhalation; Short term local effects: 15 mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 8 mg/m <sup>3</sup>
PNEC	- Fresh water, Marine water; 0.036mg/l - Intermittent release; 0.045mg/l - STP; 0.36 mg/l

FORMIC ACID (CAS: 64-18-6)

DNEL	Workers - Inhalation; Long term local effects: 9.5 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 19 mg/m <sup>3</sup>
PNEC	- Fresh water; 2 mg/l - Marine water; 0.2 mg/l - Intermittent release; 1 mg/l - Sediment (Freshwater); 13.4 mg/kg - Sediment (Marinewater); 1.34 mg/kg - Soil; 1.5 mg/kg

8.2. Exposure controls

## Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Hand protection

Use protective gloves.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

**SECTION 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.
pH	pH (concentrated solution): <1
Relative density	1.02 - 1.05 @ 20°C
Solubility(ies)	Soluble in water.

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## 9.2. Other information

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

## 10.2. Chemical stability

Stability Stable at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions 10.4.

Conditions to avoid 10.5. Incompatible materials 10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Hydrogen chloride (HCl). Formic acid.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Inhalation May cause respiratory system irritation.

Ingestion May cause discomfort if swallowed.

Skin contact Irritating to skin.

Eye contact Irritating to eyes.

## SECTION 12: Ecological Information

## 12.1. Toxicity Ecological information on ingredients.

HYDROCHLORIC ACID

Toxicity Concentrations which give low pH may be fatal to fish and aquatic organisms

FORMIC ACID

Toxicity Not considered toxic to fish.

Acute toxicity - aquatic invertebrates: EC<sub>50</sub>, 48 hours: 120 mg/l, Daphnia magna

Acute toxicity – aquatic plants: IC<sub>50</sub>, 72 hours: 25 mg/l, Algae

## 12.2. Persistence and degradability 12.3.

## Bioaccumulative potential Ecological information on ingredients.

HYDROCHLORIC ACID

Bioaccumulative potential The product is not bioaccumulating.

FORMIC ACID

Bioaccumulative potential The product is not bioaccumulating.

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12.4. Mobility in soil Ecological

information on ingredients.

FORMIC ACID

Mobility

The product is soluble in water.

12.5. Results of PBT and vPvB assessment 12.6.

Other adverse effects

**SECTION 13: Disposal considerations**13.1. Waste treatment methods

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**SECTION 14: Transport information**

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant: No.

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Code

**SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Guidance

Workplace Exposure Limits EH40.

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15.2. Chemical safety assessment

## SECTION 16: Other information

Key literature references and sources for data Dangerous Properties of Industrial Chemicals, N.Sax, Croner's: Dangerous Substances. Croner's: Emergency Spillage Guide. Croner's: Substances Hazardous to Health. Material Safety Data Sheet, Misc. manufacturers.

Revision date 06/10/2015

Revision 4

Supersedes date 26/04/2006

Hazard statements in full  
H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage. H315 Causes skin irritation.  
H318 Causes serious eye damage. H335 May cause respiratory irritation.

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.