



SAFETY DATA SHEET

ACID ETCH CLEANER (1302)

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

TRADE NAME	ACID ETCH CLEANER (1302)	MEGA PART: 500-172-2
Producer/importer	Mega Electronics Limited	
Address	Mega House, Grip Industrial Estate, Linton, Cambridge	
Country	ENGLAND	
Postal code	CB21 4XN	
Telephone	+44 (0) 1223 893900	
Fax	+44 (0) 1223 893894	

2. HAZARDS IDENTIFICATION

No	Ingredient name	EC No.	CAS No.	Conc. (wt%)	Classification
1	HYDROCHLORIC ACID	231-595-7	7647-01-0	1- 5%	C, R34 Xi; R37
2	FORMIC ACID	200-579-1	64-18-6	1- 5%	C: R35

Legend: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment

COMPOSITION COMMENTS: N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Irritating to eyes and skin.

4. FIRST AID MEASURES

GENERAL INFORMATION	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
INHALATION	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues
INGESTION	Remove victim immediately from source of exposure. Rinse mouth thoroughly. Drink plenty of water. Get medical attention.
SKIN CONTACT	Remove affected person from source of contamination. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if irritation persists after washing.
EYE CONTACT	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA Use fire-extinguishing media appropriate for surrounding materials.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear protective clothing as described in Section 8 of this safety data sheet.
SPILL CLEAN UP METHODS	DO NOT touch spilled material. Wear necessary protective equipment. Provide ventilation and confine spill. Do not allow run-off into sewer. Absorb with inert damp, non-combustible material, then flush area with water. Inform Authorities if large amounts are involved.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS	Avoid spilling, skin and eye contact.
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	Chemical Storage.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

name						
HYDROCHLORIC ACID	Std	LT- ppm	LT – mg/m3	ST –ppm	ST – mg/m3	
FORMIC ACID	OES	5 ppm	9.6 mg/m3			

PROTECTIVE EQUIPMENT



WEL = WORKPLACE EXPOSURE LIMITS.

PROCESS CONDITIONS	Use engineering controls to reduce air contamination to permissible exposure level.
ENGINEERING MEASURES	Provide adequate general and local exhaust ventilation.
RESPIRATORY EQUIPMENT	Respiratory protection must be used if air contamination exceeds acceptable level.
HAND PROTECTION	Use protective gloves.
EYE PROTECTION	Wear approved safety goggles.
OTHER PROTECTION	Wear appropriate clothing to prevent any possibility of skin contact.
HYGIENE MEASURES	DO NOT SMOKE IN WORK AREA! Wash 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 & water if skin becomes contaminated. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Clear Liquid.
Colour:	Colourless.
Solubility:	soluble in water.
Relative Density:	1.035 – 1.039 @ 20°C
pH Value:	<1

10. STABILITY AND REACTIVITY

STABILITY	Stable under normal temperature conditions.
HAZARDOUS DECOMPOSITION PRODUCTS	Irritating gases/vapours/fumes of: Hydrogen chloride (HCl). Formic acid.

11. TOXICOLOGICAL INFORMATION

INHALATION	May cause irritation to the respiratory system.
INGESTION	May cause discomfort if swallowed
SKIN CONTACT	Irritating to skin
EYE CONTACT	Irritating to eyes

12. ECOLOGICAL INFORMATION

NAME HYDROCHLORIC ACID.
Bioaccumulation
This product is not bio-accumulating.
Acute Fish Toxicity
Concentrations which give low pH may be fatal to fish and aquatic organisms

NAME FORMIC ACID.
Mobility
This product is soluble in water.
Bioaccumulation
Will not bio-accumulate
Acute Fish Toxicity
Not considered toxic to fish.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

GENERAL	This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID) No Transport warning sign required.
MARINE POLLUTANT	No

15. REGULATORY INFORMATION

LABELLING



Irritant

R-PHRASES R36/38 Irritating to eyes and skin

S-PHRASES S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S24/25 Avoid contact with skin and eyes.
S60 This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

GUIDANCE NOTES Workplace Exposure Limits EH40.

16. OTHER INFORMATION

INFORMATION SOURCES:

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.

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REV. NO./REPL. SDS GENERATED 3

RISK PHRASES IN FULL

R34 Causes burns.
R35 Causes severe burns.
R37 Irritating to respiratory system.

This information relates 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 him/herself as to the suitability of such information for his/her own particular use.