



SAFETY DATA SHEET

ABC 189 CLEANER / CONDITIONER

1. IDENTIFICATION OF SUBSTANCE AND COMPANY DS270

| | |
|--------------------------|---|
| TRADE NAME | ABC 189 CLEANER / CONDITIONER 500-270 (1L) & 500-270-1 (60ml) |
| 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. COMPOSITION/INFORMATION ON INGREDIENTS

| No | Ingredient name | EC No. | CAS No. | Conc. (wt%) | Classification |
|----|---------------------------------------|-----------|------------|-------------|----------------|
| 1 | 2-aminoetanol | 205-483-3 | 141-43-5 | 10% | Xn,20-36/37/38 |
| 2 | Secondary alcohol (C12-C14) ethoxylat | | 84133-50-6 | 5% | |

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

INGREDIENT COMMENTS ; Aqueous solution of surfactants and 2 - aminoethanol

GENERAL This product does not require labelling.

4. FIRST AID MEASURES

| | |
|---------------------|--|
| GENERAL | Remove contaminated clothing as soon as possible |
| INHALATION | Remove person to fresh air. Get medical advise if large amounts have been inhaled or the patient experiences discomfort. |
| SKIN CONTACT | Remove contaminated clothing immediately. Flush skin immediately with large amounts of water. |
| EYE CONTACT | Flush with large amounts of water (open eyelids) for at least 15 minutes. Get medical advice. |
| INGESTION | Give plenty of water or milk to drink. If swallowed, seek medical advice immediately and show this container or label. |

5. FIRE-FIGHTING MEASURES

| | |
|---|--|
| EXTINGUISHING MEDIA | Water, CO2, foam, dry chemical. |
| PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS | Use self-contained breathing apparatus if substance is involved in fire. |
| OTHER INFORMATION | Prevent release of fire control water to surface water or ground water. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| PERSONAL PRECAUTIONS | Do not breathe vapour or spray |
| ENVIRONMENTAL PRECAUTIONS | Prevent discharge of significant quantities to drains. Spillage may be pumped up or absorbed with dry, inert material such as sand, earth etc. |
| METHODS FOR CLEANING UP | Mix the chemicals with an inert material (sand, vermiculite, etc) and place in a suitable container. Flush with large amounts of water to clean the area |

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS Do not store near acids. Containers must be kept tightly closed.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

| Ingredient name | Cas nr. | Interval | ppm | mg/m ³ | Year | Notes |
|-----------------|----------|----------|-----|-------------------|------|-------|
| 2-aminoetanol | 141-43-5 | 8 h | 3,0 | 8,0 | 2000 | H |

RESPIRATORY PROTECTION Respiratory protection may be necessary

EYE PROTECTION Wear goggles or face shield if there is a possibility of eye contact.

HAND PROTECTION Use suitable protective gloves if skin contact is possible.

PROTECTIVE CLOTHING Wear apron

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------|------------------------------|-------------------------------------|-----------------------|
| Physical State: | Solution. | | |
| Colour: | Colourless. | | |
| Odour: | Characteristic. | | |
| Solubility: | Completely soluble in water. | | |
| Melting point/range: | ca -10 C | Density: | 1,05g/cm ³ |
| Expl. limit LEL-UEL%: | -- | Solubility in water: | 100% |
| Vapour pressure: | -- | Saturation conc.: | -- |
| Decomposition temp.: | -- | Rel. dens. sat. air (air=1): | -- |
| pH solution: | 9 | Boiling point/range: | ca 120 C |
| Flash point: | -- | pH concentrate: | >10 |
| Molar weight: | -- | Viscosity: | -- |

10. STABILITY AND REACTIVITY

MATERIALS TO AVOID

May form explosive gases in contact with: inorganic acid chlorides Exothermic reaction with strong acids

11. TOXICOLOGICAL INFORMATION

INHALATION Respiratory tract irritation

SKIN CONTACT Chemical burns. May cause skin irritation and / or dermatitis.

EYE CONTACT Highly irritating to the eyes.

INGESTION Burning sensation in the mouth and throat

12. ECOLOGICAL INFORMATION

DEGRADABILITY Readily biodegradable

ECOTOXICITY The product contains monoethanolamin which has following values:
LC50 (fish, mg/litre): 150 mg/l /96h LC50 (Daphnia, mg/litre / 24 hours): 65 mg/l

OTHER INFORMATION The product is alkaline and will cause a local increase in pH when discharged to sea or lake.

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS Dispose of in compliance with local regulations. Contact supplier for disposal information.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods: Yes No N/A

OTHER INFORMATION Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

15. REGULATORY INFORMATION

COMPOSITION: 2-aminoetanol (10%), Secondary alcohol (C12-C14) ethoxylat (5%)

S-PHRASES S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-37/39 Wear suitable gloves and eye/face protection.

16. OTHER INFORMATION

INFORMATION SOURCES:

The safety data sheet has been prepared on the basis of information given by raw materials suppliers

ISSUED: 10/12/02

Updated 02/08

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BELIEVED TO BE ACCURATE - HOWEVER NO GUARANTEE OR WARRANTY EXPRESSED OR IMPLIED IS GIVEN