

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

NAME: ABC COPPER PLATING SOLUTION 9711
PART NO: 500-161 - 25 litres & 500-161-1 - 5 LITRES

MANUFACTURER'S/SUPPLIERS NAME, REGISTERED ADDRESS AND

EMERGENCY TEL NO:
 MEGA ELECTRONICS LTD.,
 THE GRIP INDUSTRIAL ESTATE,
 LINTON, CAMBRIDGE.
 ENGLAND, CB21 4XN
 TELEPHONE: +0044 01223 893900

ORGANISATIONS NAME & ADDRESS AT WHICH MANUFACTURED

PMD (UK) Limited
 Broad Lane, Coventry, CV5 7AY
 Tel: 024 764 66691

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

	% by WT	Hazard	R,PHRASE NO.
SULPHURIC ACID 7664-93-9	10-30 %	C	35
COPPER SULPHATE PENTAHYDRATE	5-10 %	Xn	22, 36/38

3. HAZARDS IDENTIFICATION:

Causes severe burns.

4. FIRST AID MEASURES:

GENERAL: Remove affected person from source of contamination. Get medical attention

INHALATION: Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air

INGESTION: DO NOT INDUCE VOMITTING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air

SKIN: 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 promptly if symptoms occur after washing

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA:
 Use extinguishing media appropriate for surrounding fire.

UNUSUAL FIRE & EXPLOSION HAZARDS:
 May develop highly toxic or corrosive fumes if heated.

HAZARDOUS COMBUSTION PRODUCTS:
 Toxic gases/vapours/fumes of: Sulphurous gases (SOx).

6. ACCIDENTAL RELEASE MEASURES:

SPILL CLEANUP METHODS:
DO NOT touch spilled material. Wear necessary protective equipment. Provide ventilation and confine spill. Do not allow runoff to 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. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Eye wash facilities and emergency shower must be available when handling this product

STORAGE PRECAUTIONS: Keep in cool, dry, ventilated storage and closed containers. Keep in original container. Store between 5°C and 30°C

STORAGE CRITERIA: Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

SULPHURIC ACID 7664-93-9 1 -- No std.
 SULPHURIC ACID 7664-93-9 1 -- No std.

PROTECTIVE EQUIPMENT: GLOVES SPECTACLES FULL FACE SHIELD

PROCESS CONDITIONS: Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station

VENTILATION: Provide adequate general and local exhaust ventilation.

RESPIRATORS: Respiratory protection must be used if air concentration exceeds acceptable level

PROTECTIVE GLOVES: Use protective gloves.

EYE PROTECTION: Use approved safety goggles or face shield.

OTHER PROTECTION: Wear appropriate clothing to prevent any possibility of skin contact

HYGIENIC WORK PRACTICES: 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. Use appropriate skin cream to prevent drying of skin. No eating or drinking while working with this material

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Clear. Liquid **COLOUR:** Blue.
ODOUR: NOTE **ACIDITY/ALKALINITY Ph:** > 1
BOILING POINT °C: 105 **MELTING POINT:**
FLASH POINT °C: **AUTOIGNITION TEMP °C:**
THERMAL DECOMPOSITION TEMP °C:
OXIDISING PROPERTIES:
EXPLOSIVE PROPERTIES
EXPLOSIVE LIMITS AT 25°C: (% VOL IN AIR)
LOWER: **UPPER:**
RELATIVE DENSITY **SOLID CONTENTS %:**
SOLUBILITY DESCRIPTION: Soluble in water.
DENSITY/SPECIFIC GRAVITY (g/ml): 1.16
TEMPERATURE (°C): 20
pH-VALUE, CONC. SOLUTION: <1

10. STABILITY AND REACTIVITY:

STABILITY: Normally stable.
CONDITIONS TO AVOID: Avoid contact with: Strong alkalis.

HAZARDOUS DECOMP. PRODUCTS:
 Toxic gases/vapours/fumes of: Sulphurous gases (SOx).

11. TOXICOLOGICAL INFORMATION:

HEALTH WARNINGS: Swallowing concentrated chemical may cause severe internal injury.
RESPIRATORY SYSTEM. Serious damage to the lining of nose, throat and lungs

12. ECOLOGICAL INFORMATION:

13. DISPOSAL CONSIDERATIONS:
DISPOSAL METHODS: Dispose of in accordance with Local Authority requirements. S-35 This material and its container must be disposed of in a safe way

14. TRANSPORT INFORMATION:

LABEL FOR CONVEYANCE:
 CORROSIVE SUBSTANCE (CLASS 8) (BLACK/WHITE HALVED DIAMONDS WITH CORROSIVE SYMBOL

UN No. ROAD: 1760

ADR CLASS No.: Class 8: Corrosive substances.

ADR CLASS: 8 **ADR ITEM No.:** 66(b)

CEPIC TEC(R) No.: 80G19 **PROPER SHIPPING NAME IS:** CORROSIVE LIQUID, N.O.S **IMDG CLASS:** 8 **IMDG PAGE No.:** 8147

IMDG PACK GR.: II **EmS No.:** 8-15

MFAG TABLE No.: 760 **ICAO CLASS:** 8

AIR PACK GR.: II

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY: CORROSIVE
RISK PHRASES: R-35 Causes severe burns.

SAFETY PHRASES:
 S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S-24/25 Avoid contact with skin and eyes.
 S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S-60 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 1988

GUIDANCE NOTES:
 Occupational 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

REVISION DATE: 25/08/04