

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

NAME: ABC COPPER PLATING SOLUTION 9712
PART NO: 500-147-2 - 25 litres

MANUFACTURER'S/SUPPLIERS NAME, REGISTERED ADDRESS AND EMERGENCY TEL NO:

MEGA ELECTRONICS LTD., TELEPHONE: +0044 01223 893900
 THE GRIP INDUSTRIAL ESTATE,
 LINTON, CAMBRIDGE. ENGLAND, CB21 4XN.

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	231-639-5	15 %	C	35
COPPER SULPHATE	231-847-6	7%	Xn	22,
PENTAHYDRATE			Xi	36/38
			N	50/53

3. HAZARDS IDENTIFICATION:

Causes severe burns. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 VOMITING! 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

EYE: 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 eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTIONS

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

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: 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 CRITERIA: Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

COPPER SULPHATE PENTAHYDRATE

Std	Lt-ppm	LT – mg/M3	ST – ppm	ST – mg/m3
		1 (Cu) mg /m3		2 (Cu) mg / m3

PROTECTIVE EQUIPMENT:

GLOVES, SPECTACLES, FULL FACE SHIELD

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

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

HAND PROTECTION: 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 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. 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.

SOLUBILITY DESCRIPTION: Soluble in water.

pH-VALUE, CONC. SOLUTION: <1

10. STABILITY AND REACTIVITY:

STABILITY: Stable under normal temperature conditions.

CONDITIONS TO AVOID: Avoid contact with: Strong alkalis.

HAZARDOUS DECOMP. PRODUCTS:

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

11. TOXICOLOGICAL INFORMATION:

INHALATION: May cause irritation to the respiratory system

INGESTION: May cause chemical burns to mouth and throat

SKIN CONTACT: Causes burns.

EYE CONTACT: Causes burns. Risk of serious damage to eyes.

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:

ECOTOXICITY: This product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

MOBILITY: The product is soluble in water.

ACUTE FISH TOXICITY: Concentrations which give low pH maybe fatal to fish and aquatic organisms.

Name: SULPHURIC ACID

Mobility: This product is soluble in water.

Bioaccumulation potential. Will not bio-accumulate

Name: COPPER SULPHATE PENTAHYDRATE

Ecotoxicity: The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

LC 50, 96 Hrs, Fish mg/l 0.39

Mobility: This product is soluble in water.

Acute Fish Toxicity: Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS:

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

14. TRANSPORT INFORMATION:

LABEL FOR CONVEYANCE:

CORROSIVE SUBSTANCE (CLASS 8) (BLACK/WHITE HALVED DIAMONDS WITH CORROSIVE SYMBOL

UK ROAD CLASS: 8

PROPER SHIPPING NAME:

CORROSIVE LIQUID, ACIDIC INORGANIC NSO (SULPHURIC ACID)

UN No. ROAD: 3264 UN ROAD PACK GR: II

ADR CLASS: 8 HAZARD NO (ADR) 80

ADR CLASS No.: Class 8: Corrosive substances.

ADR PACK GROUP: II RID CLASS NO 8

ADR LABEL No.: 8 UN NO SEA 3264

CEVIC TEC(R) No.: 80GC1-II+III

RID PACK GROUP: II

IMDG CLASS: 8 IMDG PAGE No.: 8147

IMDG PACK GR.: II EmS No.: F – A, S – B

MFAG: see guide MARINE POLLUTANT: No

UN No AIR: 3264 AIR CLASS: 8

AIR PACK GR.: II

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY: CORROSIVE

DANGEROUS FOR THE ENVIRONMENT

RISK PHRASES: R-35 Causes severe burns.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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-57 Use appropriate containment to avoid environmental contamination.

S-60 This material and its container must be disposed of as hazardous waste.

S-61 Avoid release to the environment.

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: 08/10/07