

SAFETY DATA SHEET



Product Name: MULTI POOL TABLETS

SDS Reference 006

Version No. 2

Revision date 22-01-2002

Authorisation date January 22nd, 2002

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name MULTI – POOL TABLETS,
Synonym (s) STABILISED CHLORINE TABLETS, TRICHLOR TABLETS, MULTI – FUNCTION TABS
Company Identification PLASTICA LTD
Perimeter House,
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St Leonards-on-Sea, East Sussex, TN38 9NY
Emergency Telephone 0845 6013142 (24hr)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation ORGANIC AND INORGANIC PREPARATION WITH 90% ACTIVE CHLORINE

| <u>Chemical name</u> | <u>CAS-No</u> | <u>EINECS/ELINCS</u> | <u>Classification</u> | <u>Concentration</u> |
|---------------------------|---------------|----------------------|---|----------------------|
| TRICHLOROISOCYANURIC ACID | 87-90-1 | 201-782-8 | Xn: R22 R31 Xi: R36/37 N: R50. 53 | 85-95% |
| ALUMINIUM SULPHATE | 10043-01-3 | 233-135-0 | OEL data | 5-10% |
| COPPER SULPHATE | 7758-99-8 | 231-847-6 | Xn: R22 Xi: R36/38 N: R50. 53 | ????? |

3. HAZARDS IDENTIFICATION



Physical & Chemical: CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE

OXIDISING



Health: HARMFUL IF SWALLOWED.
CONTACT WITH ACIDS LIBERATES TOXIC GAS
IRRITATING TO EYES AND RESPIRATORY SYSTEM .

HARMFUL



Environmental: VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM
ADVERSE EFFECTS IN THE AQUATIC ENVIROMENT.

DANGEROUS
FOR THE
ENVIROMENT

4. FIRST AID MEASURES**General information**

| | |
|----------------------------|--|
| Inhalation | Remove casualty to fresh air and provide warmth and rest. If necessary seek medical advice. |
| Skin contact | Wash contaminated skin with soap and large quantities of water at least 15 minutes. If necessary seek medical advice. Remove contaminated clothing immediately and wash before re-use. |
| Eye contact | Immediately wash out eye thoroughly with plenty of water until irritation subsides. If irritation persists, seek medical advice (e.g. an ophthalmologist) |
| Ingestion | Do NOT induce vomiting. Drink plenty of water and if necessary seek medical advice |
| Further information | |

5. FIRE FIGHTING MEASURES

| | |
|---|---|
| General hazard | THE PRODUCT WILL BURN IN A FIRE |
| Extinguishing media | To suit local surroundings (if possible large volumes of water) |
| Extinguishing media not to be used | Small volumes of water, foam, dry chemical |
| Special exposure hazards | The thermal decomposition products released should be considered toxic if inhaled. Do not approach fire from a leeward direction. |
| Protective equipment | Wear self-contained breathing apparatus and goggles. Do not approach from leeward. |
| Further information | Contact with combustible material may cause fire Avoid run-off water entering the drains (e.g. use barriers) |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-------------------------------------|---|
| Methods for cleaning up | Adhere to personal protective measures. Take up mechanically (e.g. sweep or vacuum up) into a suitable container (e.g. plastic or glass). Label container and dispose of as prescribed. |
| Environmental considerations | Do not allow the product to enter ground or waste water. If this occurs, inform the local water authority at once. |
| Further information | |

7. HANDLING & STORAGE

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|--------------------------------|--|
| Advice on safe handling | Handle in accordance with good hygiene and safety practice. Keep the raising and deposition of dust to a minimum. Keep away from combustible materials (e.g. organic substances). Only use with equipment made from ceramics, plastic or glass. Keep away from sources of ignition - NO SMOKING! |
| Storage conditions | Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool (< 25°C) and dry. Keep away from sunlight and incompatible materials. |

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7. HANDLING & STORAGE

Further information Avoid contact with nitrogen containing compounds (e.g. ammonia, urea, amines).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Exposure controls | Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls |
| | LTEL (8 hour TWA): ppm 2 mg/m ³ OEL for aluminium salts, soluble |
| | STEL (15 min): ppm mg/m ³ |
| | LTEL (8 hour TWA): 0.5 ppm 1.5 mg/m ³ (OEL for chlorine, EH40/2002) |
| | STEL (15 min): 1.0 ppm 2.9 mg/m ³ (OEL for chlorine, EH40/2002) |
| Engineering controls | Ensure adequate ventilation of working area (e.g. local exhaust ventilation). |
| Personal protection | Observe normal standards for handling chemicals. Avoid breathing dust and any chlorine gas released Avoid eye and skin contact. Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below) |
| Eye protection | Safety goggles (i.e. EN 166 approved) |
| Skin protection | Natural rubber latex gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken) |
| Respiratory protection | When dusty conditions are encountered. Wear a NIOSH/OSHA full face respirator with chlorine cartridge and dust pre filter. |
| Other protection | Protective overall |

9. PHYSICAL & CHEMICAL PROPERTIES

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|-------------------------------|--------------------------------|
| Physical form | Solid |
| Colour | White with blue specks |
| Odour | Chlorine-like |
| pH | Of 10 g/l: 2.7-3.3 |
| Boiling pt / range | Not applicable. °C |
| Melting pt / range | approx. 225 °C (decomposes) |
| Flash point | Not flammable °C |
| Autoflammability | °C |
| Bulk density | approx. 0.95 g/cm ³ |
| Explosive limits | Lower: % (v/v) Higher: % (v/v) |
| Water solubility | 10 g/l @ 25°C |
| Additional information | |

10. STABILITY & REACTIVITY

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|---|---|
| Stability | Stable under normal conditions of handling. |
| Thermal decomposition | 225°C. Exothermic decomposition with evolution of toxic gases. |
| Conditions to avoid | Heat, small quantities of water, contact with combustible materials. |
| Material to avoid | The product is incompatible with oxidisable substances, acids and nitrogen containing chemicals. |
| Hazardous reactions | Exothermic reactions may occur with oxidisable organic or inorganic substances. Reaction with acids causes release of chlorine. Reacts violently with small volumes of water to generate explosive nitrogen trichlorides. |
| Hazardous decomposition products | Chlorine. |
| Further information | |

11. TOXICOLOGICAL INFORMATION

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|--------------------------------------|--|------|-------|
| Acute toxicity | LD ₅₀ mouse (oral) | 1000 | mg/kg |
| Dermal compatibility | Moderate irritant causing erythema and oedema (rabbit) | | |
| Mucous membrane compatibility | Severely irritant (rabbit eye) | | |
| Further information | All data are for Trichloroisocyanuric acid. | | |

12. ECOLOGICAL INFORMATION

| | | | | |
|----------------------------|---|------|--------|-------------------|
| Acute toxicity | LC ₅₀ | Fish | mg / l | No data available |
| Degradability | No data available | | | |
| Further information | Trichloroisocyanuric acid is toxic to fish and aquatic organisms. Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once. | | | |

13. DISPOSAL CONSIDERATIONS

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| Advice on disposal | In accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations, 1996) or incineration, after consultation with the operator. |
| Contaminated packaging | Disposal of contaminated packing as chemical waste in accordance with local and national regulations. |

14. TRANSPORT INFORMATION

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|------------------------------|---|
| United Nations number | UN 2468 |
| Packaging group | II |
| IMDG code | 5.1/2468/II |
| RID / ADR | 5.1, II |
| ICAO / IATA | 5.1/2468/II |
| Marine pollutant | The product should not be marked as a marine pollutant. |
| Proper shipping name | TRICHLOROISOCYANURIC ACID, DRY, MIXTURE |
| Emergency action code | 2WE |
| Further information | |

15. REGULATORY INFORMATION

Classification & labelling The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3] Contains Trichloroisocyanuric acid



OXIDISING



HARMFUL

**DANGEROUS
FOR THE
ENVIROMENT**

| | | |
|-----------------------|--------|---|
| Risk phrases | R8 | CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE |
| | R22 | HARMFUL IF SWALLOWED. |
| | R31 | CONTACT WITH ACIDS LIBERATES TOXIC GAS |
| | R36/37 | IRRITATING TO EYES AND RESPIRATORY SYSTEM. |
| | R50/53 | VERY TOXIC TO AQUATIC ORGANISMS; MAY CAUSE LONG-TERM ADVERS EFFECTS IN THE AQUATIC ENVIROMENT |
| Safety phrases | S2 | KEEP OUT OF THE REACH OF CHILDREN. |
| | S8 | KEEP CONTAINER DRY |
| | S26 | IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. |
| | S41 | IN CASE OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES. . |
| | S60 | THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE. |
| | S61 | AVOID RELEASE TO THE ENVIROMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET. |

16. OTHER INFORMATION

Further information The safety data sheet has been revised in the following sections: 1; 2; 3; 14 and 15.

Risk phrases referred to in section 2

R22: Harmful if swallowed
R31: Contact with acids liberates toxic gas.
R36/37: Irritating to eyes and respiratory system
R36/38: Irritating to eyes and skin
R50: Very toxic to aquatic organisms
R53: May cause long-term adverse effects in the aquatic environment.

Sources of data The Approved Supply List. EH40/2002 and other suppliers' safety data sheets

Date of issue 12-09-2003

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 PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.

Data sheet prepared by Rising HS&E Services.
