

SAFETY DATA SHEET



Product Name:	MULTI <u>POOL</u> <u>TABLETS</u>	SDS Reference	006
Version No.	2	Revision date	22-01-2002
		Authorisation date	January 22nd, 2006

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name	MULTI – POOL TABLETS,
Synonym (s)	STABILISED CHLORINE TABLETS, TRICHLOR TABLETS, MULTI – FUNCTION TABS
Use(s)	Chlorination of swimming pools
Company Identification	PLASTICA LTD Perimeter House, Napier Road, Telephone +44 (0) 1424 857857 St Leonards-on-Sea, East Sussex, TN38 9NY
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2. 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



DANGER

H302	Harmful if swallowed
EUH031	Contact with acid liberates toxic gas
H270	May cause or intensify fire; oxidiser
H320+335	Causes eye irritation; May cause respiratory irritation
H400+413	Very toxic to aquatic life; May cause long lasting harmful effects to aquatic life

Product Name:

MULTI TABS

SDS Reference 006

2. HAZARDS IDENTIFICATION

P402+102	Store in a dry place: Keep away from children
P305+351	IF IN EYES: Rinse cautiously with water for several minutes
P370+380	In case of fire: Evacuate area
P273	Avoid release into the environment
P501	Dispose of contents/container to hazardous waste collection point

3. 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	3-5%
COPPER SULPHATE	7758-99-8	231-847-6	Xn: R22 Xi: R36/38 N: R50. 53	3-5%

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

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 WEL for aluminium salts, soluble
	LTEL (8 hour TWA): 0.5 ppm 1.5 mg/m ³ (WEL for chlorine, EH40/2005)
	STEL (15 min): 1.0 ppm 2.9 mg/m ³ (WEL for chlorine, EH40/2005)
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

Physical form	Solid
Colour	White with blue specks
Odour	Chlorine-like
pH	Of 10 g/l: 2.7-3.3

9. PHYSICAL & CHEMICAL PROPERTIES

Boiling pt / range	Not applicable.	°C
Melting pt / range	approx. 225	°C (decomposes)
Flash point	Not flammable	°C
Bulk density	approx. 0.95	g/cm ³
Explosive limits	Lower:	% (v/v) Higher: % (v/v)
Water solubility	10 g/l @ 25°C	

10. STABILITY & REACTIVITY

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.

11. TOXICOLOGICAL INFORMATION

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

Advice on disposal	In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
Contaminated packaging	Disposal of contaminated packing as chemical waste in accordance with local and national regulations.

14. TRANSPORT INFORMATION

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 3.1 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

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. EH40/2005 and other suppliers' safety data sheets

Date of issue

05-06-2006

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.