

# SAFETY DATA SHEET



**Product Name:** MULTI-POOL GRANULES

**SDS Reference** 002

**Version No.** 2

**Revision Date.** 1/3/2006

**Authorisation date** January 05<sup>th</sup> 2006

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

**Product Name** PLASTICA MULTI-POOL GRANULES  
**Synonym (s)** GRANULAR CHLORINE POOL AND SPA SANITISER. PROVIDING 56% AVAILABLE CHLORINE  
**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  
**Emergency Telephone** 09062 655005 (24hr)

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation** SOLID CONTAINING A CHLORINATED TRIAZINE

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
TROCLOSENE SODIUM, DIHYDRATE	51580-86-0	220-767-7 (ANHYDROUS FORM)	Xn: R22, R31 Xi: R36/37 N: R50, 53	> 90%
COPPER SULPHATE	7758-98-7	231-847-6	Xn: R22 Xi: R36/38 N: R50, 53	< 1%

## 3. HAZARDS IDENTIFICATION

### Physical & Chemical:



**HARMFUL**

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



**DANGEROUS  
FOR THE  
ENVIRONMENT**

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

**4. FIRST AID MEASURES**

<b>Inhalation</b>	Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available.
<b>Skin contact</b>	Clean areas of skin affected with soap and plenty of water.
<b>Eye contact</b>	Immediately wash eyes thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists) consult an eye specialist/ophthalmologist.
<b>Ingestion</b>	Do not induce vomiting. If conscious, drink plenty of water and seek medical advice.

**5. FIRE FIGHTING MEASURES**

<b>General hazard</b>	THE PRODUCT WILL BURN IN A FIRE
<b>Extinguishing media</b>	To suit local surroundings (if possible large volumes of water)
<b>Special exposure hazards</b>	Decomposes at 240-250°C generating harmful gases.
<b>Protective equipment</b>	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
<b>Further information</b>	Avoid run-off water entering the drains (e.g. use barriers) Cool endangered containers with water (to prevent container explosion).

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions:</b>	Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Eliminate all sources of ignition.
<b>Environmental precautions:</b>	Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas.
<b>Clean-up procedures:</b>	Do not allow to enter surface water courses. The creation and inhalation of dust must be avoided. Do not use equipment in clean-up procedure which may produce sparks. Sweep up spilt material into suitable containers for waste recovery or waste disposal. Do not use sawdust or any materials which may be oxidised.

**7. HANDLING & STORAGE**

<b>Advice on safe handling</b>	Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Smoking is forbidden. Use non-sparking tools.
<b>Storage conditions</b>	Store away from Calcium or Sodium Hypochlorite. Store away from acids and compounds containing ammonia. Store in cool, dry, well ventilated area. Avoid incompatible materials and conditions - see section 10 of SDS. Keep container tightly closed. Keep away from flammable and combustible materials.
<b>Suitable packaging:</b>	Containers must be clean and free from organic residues.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure controls</b>	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls.																				
	<table> <tr> <td>LTEL (8 hour TWA):</td> <td>ppm</td> <td>10</td> <td>mg/m<sup>3</sup></td> <td>Total inhalable dust (EH40/2005)</td> </tr> <tr> <td>LTEL (8 hour TWA):</td> <td>ppm</td> <td>4</td> <td>mg/m<sup>3</sup></td> <td>Respirable dust (EH40/2005)</td> </tr> <tr> <td>LTEL (8 hour TWA):</td> <td>0.5 ppm</td> <td>1.5</td> <td>mg/m<sup>3</sup></td> <td>WEL for chlorine (EH40/2005)</td> </tr> <tr> <td>STEL (15 min):</td> <td>1.0 ppm</td> <td>2.9</td> <td>mg/m<sup>3</sup></td> <td>WEL for chlorine (EH40/2005)</td> </tr> </table>	LTEL (8 hour TWA):	ppm	10	mg/m <sup>3</sup>	Total inhalable dust (EH40/2005)	LTEL (8 hour TWA):	ppm	4	mg/m <sup>3</sup>	Respirable dust (EH40/2005)	LTEL (8 hour TWA):	0.5 ppm	1.5	mg/m <sup>3</sup>	WEL for chlorine (EH40/2005)	STEL (15 min):	1.0 ppm	2.9	mg/m <sup>3</sup>	WEL for chlorine (EH40/2005)
LTEL (8 hour TWA):	ppm	10	mg/m <sup>3</sup>	Total inhalable dust (EH40/2005)																	
LTEL (8 hour TWA):	ppm	4	mg/m <sup>3</sup>	Respirable dust (EH40/2005)																	
LTEL (8 hour TWA):	0.5 ppm	1.5	mg/m <sup>3</sup>	WEL for chlorine (EH40/2005)																	
STEL (15 min):	1.0 ppm	2.9	mg/m <sup>3</sup>	WEL for chlorine (EH40/2005)																	
<b>Engineering controls</b>	Ensure adequate ventilation of working area																				
<b>Personal protection</b>	Observe normal standards for handling chemicals. Avoid breathing dust and contact with eyes Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below)																				
<b>Eye protection</b>	Safety goggles (i.e. EN 166 approved)																				
<b>Skin protection</b>	Natural rubber latex gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)																				
<b>Respiratory protection</b>	When dusty conditions are encountered, wear a NIOSH/OSHA full-face respirator with chlorine cartridge and dust pre filter.																				
<b>Other protection</b>	Protective overall.																				

**9. PHYSICAL & CHEMICAL PROPERTIES**

<b>Physical form</b>	Granules
<b>Colour</b>	White with blue speckles
<b>Odour</b>	Strong Chlorine
<b>Boiling pt / range</b>	°C
<b>Melting pt / range</b>	240 °C
<b>Flash point</b>	> 150 °C
<b>Auto flammability</b>	°C
<b>Water solubility</b>	Soluble

**10. STABILITY & REACTIVITY**

<b>Stability</b>	Stable under normal conditions of handling.
<b>Conditions to avoid</b>	Moist air. Heat. Flames
<b>Material to avoid</b>	Nitrogen compounds. Calcium or sodium hypochlorite. Acids. Reducing agents. Organic materials. Ammonia compounds.
<b>Hazardous reactions</b>	Small amounts of water may cause an oxidising reaction resulting in the release of nitrogen trichloride.
<b>Hazardous decomposition products</b>	In contact with acid, chlorine gas will be evolved.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	LD <sub>50</sub> rat (oral)	mg/kg	No data available for product
	LD <sub>50</sub> rat (oral)	520 mg/kg	Data for copper sulphate
<b>Dermal compatibility</b>	No data available		
<b>Mucous membrane compatibility</b>	No data available		
<b>Further information</b>	Irritation of the throat and shortness of breath may occur with severe shortness of breath.		

**12. ECOLOGICAL INFORMATION**

<b>Acute toxicity</b>	LC <sub>50</sub>	Fish	mg/l	No data available
<b>Degradability</b>	Decomposes slowly in water.			
<b>Further information</b>	The product is very toxic to fish. Do not allow to get into wastewater or waterways; if this occurs, inform the relevant water authority at once.			

**13. DISPOSAL CONSIDERATIONS**

<b>Advice on disposal</b>	In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
<b>Contaminated packaging</b>	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

**14. TRANSPORT INFORMATION**

<b>United Nations number</b>	3077
<b>Packaging group</b>	III
<b>IMDG code</b>	9/3077/III
<b>RID / ADR</b>	9, III
<b>ICAO / IATA</b>	9/3077/III
<b>Marine pollutant</b>	The product should be marked as a marine pollutant
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TROCLOSENE SODIUM, DIHYDRATE)
<b>Emergency action code</b>	2X

**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 trocloses sodium, dihydrate

**HARMFUL****DANGEROUS  
FOR THE  
ENVIRONMENT****Risk phrases**

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 adverse effects in the aquatic environment.

**Safety phrases**

S2: Keep out of the reach of children.  
 S22: Do not breathe dust.  
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S29: Do not empty into drains.  
 S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**16. OTHER INFORMATION****Further information**

Refer to the Manual Handling Operations Regulations 1992. Store in accordance with HSE Guidance Note CS17. Classed as special waste by the Hazardous Waste Regulations 2005.

**Sources of data**

The Approved Supply List..EH40 (2005) and other suppliers' safety data sheets

**Risk Phrases used in Section 2**

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 adverse effects in the aquatic environment.  
 R36/38 Irritating to eyes and skin

**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.**