SAFETY DATA SHEET



Product Name:

TRICHLOR GRANULES

Version No.

1

Revision date

SDS Reference

008

January 23rd, 2006 **Authorisation date**

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name TRICHLOROISOCYANURIC ACID (> 99%) Synonym (s) TRICHLOR CHLORINE GRANULES Use(s) Chlorination of swimming pools **Company Identification** PLASTICA LTD Perimeter House, Napier Road, St Leonards-on-Sea, East Sussex, TN38 9NY 09062 655005 (24hr) **Emergency Telephone**

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation CAS number **EINECS** number EC Index number

CHLORINATED ISOCYANURATE 87-90-1 201-782-8 613-031-00-5

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:

DANGEROUS FOR THE **ENVIRONMENT**

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

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TRICHLOR GRANULES

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. If necessary seek medical advice.
Eye contact	Immediately wash out eye thoroughly with plenty of water until irritation subsides, at least 15 minutes. 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.
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. polyethylene lined) taking care not to mix with combustible materials, soil, sand, or grass 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) using only dry, clean equipment made of ceramics, plastic or glass Keep away from sources of ignition - NO SMOKING!
Storage conditions	Ensure adequate ventilation of the storage area. Store in original container. Keep containers tightly closed, cool, dry and out of direct sunlight; do not lay on side. Keep away from 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	10	mg/m ³	Total inhalable dust (EH40/2005)
	LTEL (8 hour TWA):	ppm	4	mg/m ³	Respirable dust (EH40/2005)
	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 released chlorine gas and 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, were a NIOSH/OSHA full face respirator with chlorine cartridge and dust pre filter.				
Other protection	Protective overall				

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Granular			
Colour	White			
Odour	Chlorine-like			
рН	2.7 - 3.3 (1% aqueous solution 25°C)			
Boiling pt / range	Not applicable.	°C		
Melting pt / range	225-230	°C		
Flash point	Not flammable	°C		
Autoflammability		°C		
Density				
Explosive limits	Lower:	% (v/v)	Higher:	% (v/v)
Water solubility	10 g/l at 25°C			
Additional information				

10. STABILITY & REACTIVITY

Stability	
Thermal decomposition	225°C.
Conditions to avoid	Water – decomposes slowly. Contact with combustible material.
Material to avoid	The product is incompatible with reducing agents, acids, calcium or sodium hypochlorite, organic substances, and nitrogen containing chemicals (e.g. amines, ammonia and its salts, urea).
Hazardous reactions	Reaction with acids or water causes release of chlorine and explosive nitrogen trichlorides.
Hazardous decomposition products	Chlorine
Further information	

11. TOXICOLOGICAL INFORMATION			
Acute toxicity	50	462 mg/kg 570 mg/kg	
Dermal compatibility	Mildly irritant		
Mucous membrane compatibility	Severely irritant		
Further information		aciation, lethargy, coughing, wheezing, laryngitis, nausea, headache shown inflammation of the G.I. tract, discolouration of the liver and	

12. ECOLOGICAL INFORMATION				
Acute toxicity	LC ₅₀	Fish	mg / 1	No data available
Degradability	Biodegradation: 0% (B	$SOD_5)$		
Further information	The product is toxic to waterways; if this occu German water hazard o	irs, inform the relev	ant water auth	ot allow to get into waste water or nority 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	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION United Nations number UN 2468 Packaging group Π 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. TRICHLOROISOCYANURIC ACID, DRY Proper shipping name **Emergency action code** 2WE **Further information**

15. REGULATORY INFORMATION

Classification & la	-	product is classified in accordance with the Chemicals (Hazard Information and Packaging for bly) Regulations [CHIP 3.1] EC Label: 201-782-8
OXIDISING	HARMFUL	FOR THE
		ENVIRONMENT
Risk phrases	R8 R22 R31 R36/3 R50/53	
Safety phrases	S2 S8 S26 S41 S60 S61	KEEP OUT OF THE REACH OF CHILDREN. KEEP CONTAINER DRY IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. IN CASE OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES THIS MATERIAL AND/OR ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE. AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.

16. OTHER INFORMATION

Further information

Sources of data The Approved Supply List, Approved Carriage List, EH40/2005 and other suppliers' safety data sheets

Date of issue 03-05-2006

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.

Data sheet prepared by Rising HS&E Services.