

SAFETY DATA SHEET



Product Name: MULTI FUNCTIONAL CALCIUM
HYPOCHLORITE GRANULES

SDS Reference 087

Version No. 1

Revision date

Authorisation date November 27th 2007

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name MULTI FUNCTIONAL CALCIUM HYPOCHLORITE GRANULES
Use(s) Chlorination of swimming pools
Company Identification PLASTICA LTD
Perimeter House,
Napier Road,
St Leonards-on-Sea, East Sussex, TN38 9NY
Telephone +44 (0) 1424 857857
Emergency Telephone 09062 655005 (24hr)
SDS Competent person e-mail address: trevor@rising-hsande.co.uk

2. HAZARDS IDENTIFICATION

Physical & Chemical: NOT CLASSIFIED



CORROSIVE

Health: HARMFUL IF SWALLOWED
CONTACT WITH ACIDS LIBERATES TOXIC GAS.
CAUSES BURNS



**DANGEROUS
FOR THE
ENVIRONMENT**

Environmental: VERY TOXIC TO AQUATIC ORGANISMS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation SOLID CONTAINING ACID SALTS AND INERT FILTERS

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
CALCIUM HYPOCHLORITE	7778-54-3	231-908-7	Xn: R22, R31 N: R50	20-60%
SODIUM PHOSPHATE	7601-54-9	231-509-8	Xi: R36/38	0.3-10%

4. FIRST AID MEASURES

Inhalation Remove casualty to fresh air and provide warmth and rest. If necessary seek medical advice.

Skin contact Immediately wash contaminated skin with large quantities of water. If necessary seek medical advice.

Eye contact Immediately wash out eye thoroughly with plenty of water until irritation subsides. SEEK MEDICAL ADVICE (E.G. AN OPHTHALMOLOGIST)

Ingestion Do NOT induce vomiting. Drink plenty of water and if necessary seek medical advice. Beware of aspiration if vomiting does occur.

5. FIRE FIGHTING MEASURES

General hazard	THE PRODUCT IS NOT FLAMMABLE
Extinguishing media	To suit local surroundings (e.g. water spray, foam, carbon dioxide, chemical powder)
Extinguishing media not to be used	None known
Special exposure hazards	The thermal decomposition products released should be considered toxic if inhaled.
Protective equipment	Wear self-contained breathing apparatus.
Further information	Avoid run-off water entering the drains (e.g. use barriers). Cool endangered containers with water

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Adhere to personal protective measures. Take up mechanically (e.g. sweep or vacuum up). Label container and dispose of as prescribed. Avoid the raising and deposition of dust.
Environmental considerations	Do not allow the product to enter ground or waste water. If this occurs, inform the local water authority at once.

7. HANDLING & STORAGE

Advice on safe handling	Handle in accordance with good hygiene and safety practice. Avoid the raising and deposition of dust. Keep away from incompatible substances, moist air and steam.
Storage conditions	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry (protected from moisture).

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)**
	** See further information in section 16
Engineering controls	Ensure adequate ventilation of working area (e.g. local exhaust ventilation).
Personal protection	Observe normal standards for handling chemicals. Avoid eye and skin contact and inhalation of dust. Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below)
Eye protection	Safety goggles (e.g. EN 166)
Skin protection	Suitable gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
Respiratory protection	Not applicable unless ventilation is insufficient. If applicable comply with EN 149.
Other protection	Protective overall

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9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Powder
Colour	White
Odour	Chlorine-like
pH	8.9 at 5%
Boiling pt / range	Not determined °C
Melting pt / range	Not determined °C
Flash point	Not applicable. °C
Specific gravity	Not determined
Explosive limits	Lower: % (v/v) Higher: % (v/v)
Water solubility	180 g/l

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions of handling.
Thermal decomposition	Not determined
Conditions to avoid	Excess heat
Material to avoid	The product is incompatible with strong acids, reducing agents and organic materials
Hazardous reactions	Not determined
Hazardous decomposition products	Toxic fumes following thermal combustion.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD ₅₀ rat (oral)	850 mg/kg	Data for calcium hypochlorite
Dermal compatibility	No data available		
Mucous membrane compatibility	No data available.		

12. ECOLOGICAL INFORMATION

Acute toxicity	EC ₅₀	Daphnia magna	0.04 mg/l	Data for calcium hypochlorite (Haley et al. 1992)
Degradability	Biodegradable			
Further information	The product has no bioaccumulation potential. Do not allow to get into wastewater or waterways; if this occurs, inform the relevant water authority at once.			

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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	1759
Packaging group	II
IMDG code	8/1759/II
RID / ADR	8, II
ICAO / IATA	8/1759/II
Marine pollutant	The product should be marked as a marine pollutant
Proper shipping name	CORROSIVE SOLID, N.O.S. (CALCIUM HYPOCHLORITE)

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 calcium hypochlorite



CORROSIVE

**DANGEROUS
FOR THE
ENVIRONMENT**

Risk phrases	R22 HARMFUL IF SWALLOWED R31 CONTACT WITH ACIDS LIBERATES TOXIC GAS. R34 CAUSES BURNS R50 VERY TOXIC TO AQUATIC ORGANISMS.
Safety phrases	S1/2 KEEP LOCKED UP AND OUT OF REACH OF CHILDREN S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. S36/37/39 WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION. S45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE). S61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.

16. OTHER INFORMATION

Further information Harmful chlorine gas may be released if mixture with other products.

Risk phrases referred to in section 3

R22: Harmful if swallowed
R31: Contact with acids liberates toxic gas.
R34: Causes burns
R50: Very toxic to aquatic organisms.

Sources of data Other suppliers' safety data sheets

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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.