

SAFETY DATA SHEET



Product Name: **QUICK DISSOLVE SHOCK GRANULES**

SDS Reference 012

Version No. 1

Revision date

Authorisation date January 23rd, 2002

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name CALCIUM HYPOCHLORITE GRANULAR
Synonym (s) CHLORINE SHOCK GRANULES
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 CALCIUM HYPOCHLORITE (>65% CI ACTIVE)
CAS number 7778-54-3
EINECS number 231-908-7
EC Index number

3. HAZARDS IDENTIFICATION



Physical & Chemical: CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.

OXIDISING



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

CORROSIVE



Environmental: VERY TOXIC TO THE AQUATIC ENVIRONMENT

**DANGEROUS
FOR THE
ENVIRONMENT**

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4. FIRST AID MEASURES

General information	Show this safety sheet to the doctor in attendance. Remove from exposure, rest
Inhalation	Move to fresh air. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing.
Ingestion	If product is swallowed, do NOT induce vomiting. Drink plenty of water and if necessary seek medical advice.
Further information	Beware of aspiration if vomiting occurs. Notes to physician: Inhalation of vapours in high concentration may cause shortness of breath (lung oedema). Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

General hazard	THE PRODUCT WILL NOT BURN
Extinguishing media	To suit local surroundings (e.g. water spray, carbon dioxide, foam, chemical powder)
Extinguishing media not to be used	Water jets
Special exposure hazards	
Protective equipment	In case of fire, wear a self contained breathing apparatus.
Further information	Specific method: Cool containers / tanks with water spray. Avoid run-off water entering 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 tightly closed containers. Label container and dispose of as prescribed.
Environmental considerations	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once. .
Further information	

7. HANDLING & STORAGE

Advice on safe handling	Handle and open container with care. Use only in area provided with appropriate exhaust pressure. Open drum carefully as content may be under pressure.
Storage conditions	Keep away from combustible material. Keep tightly closed in a dry, cool and well-ventilated place. Keep away from heat, keep away from open flames, hot surfaces and sources of ignition.
Further information	Do not store near acids, ammonia.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls
	LTTEL (8 hour TWA): ppm 10 mg/m ³ Total inhalable dust (EH40/2005)
	LTTEL (8 hour TWA): ppm 4 mg/m ³ Respirable dust (EH40/2005)
	LTTEL (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 or face shield (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 prefilter.
Other protection	Protective overall

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Granular
Colour	White
Odour	Slight chlorine-like
pH	Alkaline
Boiling pt / range	Not applicable °C
Melting pt / range	Not applicable °C (decomposes)
Flash point	None °C
Autoflammability	°C
Specific gravity	2.1
Explosive limits	Lower: N/A % (v/v) Higher: N/A % (v/v)
Viscosity	
Water solubility	Water solubility 217 g/l @ 27 ⁰ C
Additional information	

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10. STABILITY & REACTIVITY

Stability	Decomposes on heating (180 ⁰ C)
Thermal decomposition	
Conditions to avoid	Contact with combustible material may cause fire.
Material to avoid	Acids, ammonia, reducing agents, organic materials
Hazardous reactions	Exothermic reactions may occur with water.
Hazardous decomposition products	Oxygen, chlorine

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LC ₀₅ (inhal) rat > 3.5 mg/l .1 hour LD ₅₀ (dermal) rabbit >1000 mg/kg LD ₅₀ rat (oral) 790-1260 mg/kg
Dermal compatibility	Causes severe burns to skin
Mucous membrane compatibility	Causes severe burns to eyes
Further information	Inhaled corrosive substances can lead to a toxic oedema of the lungs. (Symptoms may be delayed). Ingestion causes burns of the upper digestive and respiratory tracts

12. ECOLOGICAL INFORMATION

Acute toxicity	LC ₅₀ mg/l No data available
Degradability	No data available.
Further information	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	It must undergo special treatment (neutralise) e.g. in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
Contaminated packaging	Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

United Nations number	2880
Packaging group	III
IMDG code	5.1/2880/III
RID / ADR	5.1/III
ICAO / IATA	5.1/2880/III
Marine pollutant	The product should be marked as a marine pollutant
Proper shipping name	CALCIUM HYPOCHLORITE HYDRATED,
Emergency action code	2W

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15. REGULATORY INFORMATION

Classification & labelling The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3.1) EC label: 220-767-7



OXIDISING



CORROSIVE



**DANGEROUS
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Risk phrases

R8 CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
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 ADVICE.
S36/S37/39 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 SHEETS

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.