

# SAFETY DATA SHEET



**Product Name:** **QUICK DISSOLVE SHOCK GRANULES**

**SDS Reference** 012

**Version No.** 1

**Revision date**

**Authorisation date** January 23<sup>rd</sup>, 2002

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

**Product Name** CALCIUM HYPOCHLORITE GRANULAR  
**Synonym (s)** CHLORINE SHOCK GRANULES  
**Company Identification** PLASTICA LTD  
Perimeter House,  
Napier Road, Telephone +44 (0) 1424 857857  
St Leonards-on-Sea, East Sussex, TN38 9NY  
**Emergency Telephone** 0845 6013142 (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

<b>General information</b>	Show this safety sheet to the doctor in attendance. Remove from exposure, rest
<b>Inhalation</b>	Move to fresh air. Call a physician immediately.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing.
<b>Ingestion</b>	If product is swallowed, do NOT induce vomiting. Drink plenty of water and if necessary seek medical advice.
<b>Further information</b>	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

<b>General hazard</b>	THE PRODUCT WILL NOT BURN
<b>Extinguishing media</b>	To suit local surroundings (e.g. water spray, carbon dioxide, foam, chemical powder)
<b>Extinguishing media not to be used</b>	Water jets
<b>Special exposure hazards</b>	
<b>Protective equipment</b>	In case of fire, wear a self contained breathing apparatus.
<b>Further information</b>	Specific method: Cool containers / tanks with water spray. Avoid run-off water entering drains (e.g. use barriers).

## 6. ACCIDENTAL RELEASE MEASURES

<b>Methods for cleaning up</b>	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.
<b>Environmental considerations</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once. .
<b>Further information</b>	

## 7. HANDLING & STORAGE

<b>Advice on safe handling</b>	Handle and open container with care. Use only in area provided with appropriate exhaust pressure. Open drum carefully as content may be under pressure.
<b>Storage conditions</b>	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.
<b>Further information</b>	Do not store near acids, ammonia.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure controls</b>	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls
	LTEL (8 hour TWA): ppm 10 mg/m <sup>3</sup> (total inhalable dust, EH40/2002)
	LTEL (8 hour TWA): ppm 4 mg/m <sup>3</sup> (respirable dust, EH40/2002)
	LTEL (8 hour TWA): 0.5 ppm 1.5 mg/m <sup>3</sup> (chlorine, EH40/2002)
	STEL (15 min): 1 ppm 2.9 mg/m <sup>3</sup> (chlorine, EH40/2002)
<b>Engineering controls</b>	Ensure adequate ventilation of working area (e.g. local exhaust ventilation).
<b>Personal protection</b>	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)
<b>Eye protection</b>	Safety goggles or face shield (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 prefilter.
<b>Other protection</b>	Protective overall

## 9. PHYSICAL & CHEMICAL PROPERTIES

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

## 10. STABILITY & REACTIVITY

<b>Stability</b>	Decomposes on heating (180 <sup>0</sup> C)
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## 10. STABILITY & REACTIVITY

### 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 <sub>05</sub> (inhal) rat	> 3.5	mg/l	.1 hour
LD <sub>50</sub> (dermal) rabbit	>1000	mg/kg	
LD <sub>50</sub> 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<sub>50</sub> 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. at suitable disposal site, to comply with local regulations.

**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** II

**IMDG code** 5.1/2880/II

**RID / ADR** 5.1/II

**ICAO / IATA** 5.1/2880/II

**Marine pollutant** The product should not 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] EC label: 220-767-7



**OXIDISING**



**CORROSIVE**



**DANGEROUS  
FOR THE  
ENVIRONMENT**

<b>Risk phrases</b>	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.
<b>Safety phrases</b>	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, EH40/2002 and other suppliers' safety data sheets

**Date of issue** 12-09-2003

**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.