
SAFETY DATA SHEET

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name:	Shock Granules
Datasheet Number:	010 1. 1. 0
Chemical Name:	Calcium Hypochlorite
Index Number:	017-012-00-7
CAS No.:	7778-54-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier:	Plastica Ltd
Address of Supplier:	Perimeter House Napier Road St Leonards-on-Sea East Sussex TN38 9NY United Kingdom
Telephone:	+44 (0) 1424 857857
Fax:	
Responsible Person:	
Email:	info@plasticapools.com

1.4 Emergency telephone number

0800 043 0891 - Technical
0800 043 0892 - Emergency

2 Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Ox. Sol. 2, H272
- Acute Tox. 4, H302
- Skin Corr. 1B, H314
- Aquatic Acute 1, H400
- EUH031
- Classification (67/548/EEC, 1999/45/EC)
- O; R8
- Xn; R22
- R31
- C: R34
- N; R50
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

2 Hazards identification (....)



- Signal Word: Danger
- Symbols: GHS03, GHS05, GHS07, GHS09

Hazard phrases

- May intensify fire; oxidizer.
- Harmful if swallowed.
- Causes severe skin burns and eye damage.
- Very toxic to aquatic life.
- Contact with acids liberates toxic gas.

Precautionary Phrases

- Store locked up/Keep out of reach of children.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- In case of fire: Do not breathe dust/fume/gas/mist/vapours/spray.
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Avoid release to the environment.

2.3 Other hazards

- Marine pollutant

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Calcium Hypochlorite	100%	7778-54-3	231-908-7	H272, H302, H314, H400, EUH031 R8, R22, R31, R34, R50	GHS03, GHS07, GHS05, GHS09 O, C, N

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4 First aid measures (....)

- Get medical advice/attention.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Give plenty of water to drink

4 .2 Most important symptoms and effects, both acute and delayed

- Causes nausea/vomiting
- Can cause damage to the eyes and skin

4 .3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically

5 Fire-fighting measures

5 .1 Extinguishing media

- In case of fire: use water for extinction

5 .2 Special hazards arising from the substance or mixture

- See Section 10.6

5 .3 Advice for firefighters

- Wear protective clothing as per section 8

6 Accidental release measures

6 .1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Shut off all ignition sources

6 .2 Environmental Precautions

- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6 .3 Methods and material for containment and cleaning up

- Remove by mechanical means
- Collect as much as possible in clean container for reuse or disposal
- Flush spill area with copious amounts of water

6 .4 Reference to other sections

- See Section 7 & 8

7 Handling and storage

7 .1 Precautions for safe handling

- Avoid contact with combustible material
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after handling.
- Ensure adequate ventilation

7 .2 Conditions for safe storage, including any incompatibilities

- Store away from other materials.

7 Handling and storage (....)

- Store in a dry place. Store in a closed container.
- Store in a well-ventilated place. Keep cool.

7.3 Specific end use(s)

- No information available.

8 Exposure controls/personal protection

8.1 Control parameters

Calcium Hypochlorite

- WEL (long term) 1 mg/m³

8.2 Exposure controls

- Engineering controls should be provided to prevent the need for ventilation

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear rubber gloves
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection
- Wear apron or other light protective clothing



Respirator



Goggles



Gloves



Suit

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: chlorine
- Appearance: white, Solid, granules
- pH 12 at 1 % concentration
- Boiling point - not applicable
- Vapour pressure - not applicable
- Vapour density - not known
- Melting point 180 deg C with decomposition
- Water solubility 20 % at 20 °C
- Specific gravity 2.1 g/cm³
- Not flammable but will support combustion
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known
- Viscosity - not applicable

9.2 Other information

- No information available

10 Stability and reactivity

10 .1 Reactivity

- Warning! Do not use together with other products. May release dangerous gases (chlorine).

10 .2 Chemical stability

- No decomposition if stored normally.

10 .3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas.

10 .4 Conditions to avoid

- Avoid contact with water
- Keep away from heat and sources of ignition

10 .5 Incompatible materials

- Incompatible with acid
- Nitrogen containing compounds
- Incompatible with oxidizing substances
- Incompatible with organics
- Ammonia
- Incompatible with combustible material

10 .6 Hazardous Decomposition Products

- Decomposition products include chlorine.
- Decomposition products include oxygen

11 Toxicological information

11 .1 Information on toxicological effects

- LD50 (oral, rat) 850 mg/kg

Inhalation

- Can cause damage to the respiratory system

Contact with skin

- Can cause damage to the skin

Contact with eyes

- Can cause damage to the eyes

Ingestion

- The ingestion of significant quantities may cause damage to digestive system

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No information available

Mutagenicity

- No information available

12 Ecological information

12.1 Toxicity

- Very toxic to aquatic life with long lasting effects.
- LC50 (fish) 0.15 mg/l (96 hr)

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- Marine pollutant

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- See Section 12.1

13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

14 Transport information



Oxidizing Agent



ENVIRONMENTALLY HAZARDOUS



Corrosive

14.1 UN Number

3487

14.2 UN Proper Shipping Name

CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE

14.3 Transport hazard class(es)

5.1

14.4 Packing group

II

14.5 Environmental hazards

- Marine pollutant

14 Transport information (....)

14 .6 Special precautions for user

- See Section 7

14 .7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE		
ADR UN No.:	3487		
ADR Hazard Class:	5.1	ADR Packing Group:	II
Tunnel Code:	E		

Sea (IMDG)

Proper Shipping Name:	CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE		
IMDG UN No.:	3487		
IMDG Hazard Class.:	5.1	IMDG Pack Group.:	II

Air (ICAO/IATA)

Proper Shipping Name:	CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE		
ICAO Un No.:	3487		
ICAO Hazard Class.:	5.1	ICAO Packing Group.:	II

15 Regulatory information

15 .1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK

15 .2 Chemical Safety Assessment

16 Other information

Text of R and S phrase codes used in this safety data sheet:- EUH031: Contact with acids liberates toxic gas.; H272: May intensify fire; oxidizer.; H302: Harmful if swallowed.; H314: Causes severe skin burns and eye damage.; H400: Very toxic to aquatic life.; R22: Harmful if swallowed; R31: Contact with acids liberates toxic gas; R34: Causes burns; R50: Very toxic to aquatic organisms; R8: Contact with combustible material may cause fire.

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.