Revision 23/11/2015

SAFETY DATA SHEET



								Complete Pool Controls
1. Ider	ntification of the	e substan	ce/prepara	ition and of	the comp	any/undertal	king	
1.1	I.1 Product Identifier Calcium Hypochlorite Granules							
1.2	1.2 Relevant Identified uses of the substance or mixture and uses advised against Uses: Disinfection of Swimming Pool Water							
1.3			Pool Contro e Park hard leeve rshire		t			
	•	• • •	712 229081 <u>c-chemicals</u>			Fax:	+44 (0) 87	712 229083
1.4	Emergency Te Tel:		12 229081	(office hour	rs)	+44 (0) 1242	300271	(outside of office hours)
	ard Identificatio							
2.1	Classification Classification Hazard Class Ox. Sol. 2 Acute Tox. 4 * Skin Corr. 1B Aquatic Acute 1 For the full text	according	g to Regula	ation (EC) N Hazard Ca	tegory	Target Orga		Hazard Statements H272 H302 H314 H400
	Most important adverse effects Human Health: Physical & Chemical Hazards: Potential environmental effects:			See section 11 for toxilogical information See section 9 for physicochemical information See section 12 for environmental information				
2.2	Label elements Labelling acco		Regulation	(EC) No 12	72/2008			
	Hazard symbols	-			(!)			
	Signal word:		Danger	\mathbf{v}	•	\mathbf{v}		
	Hazard stateme	H302 H	335+H336:	Very toxic t Harmful if s May cause	vere skin b to aquatic l swallowed. e respirator	urns and eye ife Contact with a y irritation. Ma	acids libera ay cause dr	ites toxic gas. owsiness or dizziness gerous gases (chlorine)
	Precautionary st	tatements:	IF IN EYE present ar Wear prote	S: Rinse cor nd easy to do ective glove:	ntinuously o – continu s/protective	e rinsing e clothing/eye	protection/	nutes. Remove contact lenses if face protection R or doctor/physician.
	Additional Labe	elling:	EUH031	Contact wit	th acids lib	erates toxic ga	ases	
	Hazardous cor	mponents	which mu	st be listed	on the la	bel	Calcium H	lypochlorite
2.3	Other Hazards	;	Use biocid	les safely. A	lways read	the label and	product in	formation before use.

Trade Name: **Calcium Hypochlorite Granules**

3. Composition/information on ingredients

Calcium Hypochlorite 3.1 Mixtures **Chemical Name** % CAS No ENICS No Hazards Calcium Hypochlorite 70 - 100% 7778-54-3 231-908-7 H272, H302, H314, H400

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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Rinse cautiously with water for several minutes. Remove contact lenses, if present and - IF IN EYES: easy to do so. Continue rinsing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- Get medical advice/attention

4.2 Most important symptoms and effects, both acute and delayed Symptoms and effects

- Can cause damage to the eyes and skin

- Prolonged skin or eye contact may cause chemical burns
- In cases of severe exposure, breathing difficulty may develop

Treat symptomatically

4.3 Indication of immediate medical attention and special treatment needed

5. Fire fighting measures

5.1 Extinguishing media:

- In case of fire: use carbon dioxide for extinction
- DO NOT USE dry extinguishers containing ammonium compounds such as dry powder

5.2 Special hazards arising from the substance or mixture

Calcium Hypochlorite is both a strong oxidiser and is chemically reactive with many substances. Strong oxidisers are capable of intensifying a fire once started; because of this any contamination of the product with other substances by spill or otherwise should be avoided.

5.2 Special hazards arising from the substance or mixture

- Gives off irritating or toxic fumes (or gases) in a fire.
- Exposure to decomposition products may be a hazard to health
- See Section 10.6

5.3 Advice for fire-fighters

- Wear protective clothing as per section 8

Special protective equipment:

- Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit
- In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Evacuate the area and keep personnel upwind
- Avoid raising dust
- Avoid contact with combustible material

6.2 Environmental precautions

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

6. Accidental release Measures

6.3 Methods and materials for containment and cleaning up

- Place in appropriate container
- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal
- Do not absorb spillage in sawdust or other combustible material
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

See Section 1 for emergency contact information See Section 7 & 8for information on Personal protective equipment See section 13 for waste treatment information

7. Handling and storage

7.1 Precautions for safe handling

- Do not mix with any other products
- Ensure adequate ventilation
- Avoid contact with skin and eyes.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Do not eat, drink or smoke when using this product
- Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities.

- Store away from other materials.
- Keep only in original container
- Store in a dry place.
- Protect from moisture
- Store in a well-ventilated place. Keep cool.
- Do not store above 35 °C
- Keep away from foodstuff.
- Keep away from acid.
- Keep away from reducing agents

7.3 Specific end uses

- No information available

8. Exposure control/personal protection

8.1 Control parameters

Calcium hypochlorite

- WEL (short term) 2 mg/m3

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

Personal protective equipment

- In case of inadequate ventilation wear respiratory protection

- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

- Wear safety glasses approved to standard EN 166.
- Wear apron or other light protective clothing

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

white, granules Appearance: Odour: chlorine pH 12 pH 12 at 1 % concentration Boiling point Not known Vapour pressure Not applicable Vapour density Not applicable 180° C with decomposition Melting point Water solubility 217 g/l at 27 °C Specific gravity Not known Flash point Not known Strong oxidising agent 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

- Strong oxidising agent
- Use with other products may release Chlorine

10.2 Chemical stability

- Decomposes above 180 °C

10.3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas
- Exothermic reaction on heating

10.4 Conditions to avoid

- Keep away from heat and moisture
- Prevent ingress of humidity and moisture into container or package. Always close the lid after use.
- Avoid contact with combustible material
- Avoid contact with foodstuffs

10.5 Incompatible materials

- Reacts with acids to produce free chlorine
- Incompatible with reducing agents
- Incompatible with metals
- Incompatible with strong oxidizing substances
- Ammonia

10.6 Hazardous decomposition products

- Decomposition products may include acidic and toxic gases
- Decomposition products may include oxygen
- Decomposition products may include chlorine
- Decomposition products may include carbonoxides

11. Toxilogical Information

11.1 Information on toxilogical effects

- LD50 (oral,rat) 790 mg/kg
- Prolonged skin or eye contact may cause chemical burns

Inhalation	- May cause respiratory trac tirritation. - Causes delayed pulmonary oedema
Contact with skin	- Causes blistering of the skin - Causes redness and irritation -Can cause damage to the mucous membranes
Contact with eyes	- Causes redness and swelling - Causes burning sensation - Can cause damage to the eyes
Ingestion	 The ingestion of significant quantities may cause burning sensation The ingestion of significant quantities may cause damage to the digestive system
	dense of agreeing going offects

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 - LC50 (bluegillsunfish) 0.088mg/l (96hr) - LC50 (rainbowtrout) 0.16mg/l (96hr) - EC50 (Daphniamagna) 0.116mg/l (48hr) 			
12.2 Persistence and d	and degradability egradability - No information available			
12.3 Bioaccumlati Bioaccumlativ	ve potential e potential - No information available			
12.4 Mobility in so Mobility in soil				
12.5 Results of PE PBT and PvB	BT and PvB - Not a PBT according to REACH Annex XIII			
12.6 Other advers	 e effects - Do not allow product to reach ground water, water course or sewage system. - Must not reach sewage water or drainage ditch undiluted or unneutralized. - Danger to drinking water if even extremely small quantities leak into the ground. - May cause long term adverse effects in the aquatic environment 			

13. Disposal Considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Avoid release to the environment
- Do not allow to enter public sewers and water coursest
- This material and/or its container must be disposed of as hazardous waste
- Do not reuse empty containers without commercial cleaning or reconditioning

Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

Trade Name:

Calcium Hypochlorite Granules

4. Transport Information									
Oxidising Agent Corr	osive Marine	ne Pollutant							
14.1 UN Number	UN3487								
14.2 UN proper shipping name	CALCIUM HYPO	CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE							
14.3 Transport hazard class(es)	5.1 + 8								
14.4 Packaging Group	II								
14.5 Environmental hazards	Marine Pollutant								
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: CALC	CIUM HYPOCHLORITE ,HYDRATED, CORROSIVE							
ADR UN No.:	3487								
ADR Hazard Cl Tunnel Code:	ass: 5.1(8) E	3) ADR Packing Group: II							
Sea (IMDG)									
Proper Shipping	y Name: CALC	CIUM HYPOCHLORITE ,HYDRATED, CORROSIVE							
IMDG UN No.:	3487								
IMDG Hazard C	Class: 5.1(8)	3) IMDG Packing Group: II							
Air (ICAO/IATA)									
Proper Shipping ICAO UN No.:	3487 Name: CALC	CIUM HYPOCHLORITE ,HYDRATED, CORROSIVE							
	lass: 5.1(8)								

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture. This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

15.2 Chemical Safety Assessment

No informaiton available

16. Other information

H272May intensify fire; oxidiserH314:Causes severe skin burns and eye damageH400:Very toxic to aquatic lifeH302+EUH031:Harmful if swallowed. Contact with acids liberates toxic gas.H335+H336:May cause respiratory irritation.Marning!Do not use together with other products.May release dangerous gases (chlorine)

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Rev 5 Indicates updated section