

1.1 Product Identif	statice/preparation and	of the company	/undertaking			
Trade Name:	fier Rapid Shock					
1.2 Relevant Identi Uses:	ified uses of the substa Disinfection of Swimm		and uses adv	sed against		
1.3 Details of the s Company:	Supplier of the safety da Complete Pool Contro Unit 2, The Park Stoke Orchard Bishops Cleeve Gloucestershire GL52 7RS					
Telephone: E-mail:	+44 (0) 8712 229081 sales@cpc-chemicals	.co.uk		Fax:	+44 (0) 8	712 229083
1.4 Emergency Tel Tel:	lephone +44 (0) 8712 229081	(office hour	s)	+44 (0) 3712	2290841	(outside of office hours)
rd Identification						
Acute Tox. 4 * Skin Corr. 1B Aquatic Acute 1 For the full text of	H302 H314 H400 of the H statements men	tioned in this sec	tion see Sectio	on 16.		
Most importan Human Health: Physical & Cher Potential enviro	t adverse effects mical Hazards:	See section	11 for toxicilo 9 for physico 12 for enviror	gical informati chemical infori	mation	
Human Health: Physical & Cher Potential environ 2.2 Label elements	t adverse effects mical Hazards: nmental effects:	See section See section	9 for physico	gical informati chemical infori	mation	
Human Health: Physical & Cher Potential environ 2.2 Label elements	t adverse effects mical Hazards: nmental effects: s rding to Regulation (EC	See section See section C) No 1272/2008	9 for physico	gical informati chemical infori	mation	
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Human Health: Physical & Cher Potential environ 2.2 Label elements Labelling acco Hazard symbols Signal word:	t adverse effects mical Hazards: nmental effects: s rding to Regulation (EC s: GHS0	See section See section No 1272/2008 GHS05	9 for physicod 12 for enviror	gical informati chemical inform imental inform GHS09	mation	
Human Health: Physical & Cher Potential environ 2.2 Label elements Labelling acco Hazard symbols Signal word:	t adverse effects mical Hazards: nmental effects: s rding to Regulation (EC s: GHSC Danger ining components of labe	See section See section No 1272/2008 GHS05 Iling: May intensi Harmful if s Causes sev	9 for physicod 12 for enviror GHS07 Calcium Hyp	gical informati chemical inform imental inform GHS09 pochlorite	nation ation	

2. Hazard Identification	
P260	0 Do not breathe dust/fume/gas/mist/vapours/spray.
P264	4 Wash hands thoroughly after handling.
P270	0 Do not eat, drink or smoke when using this product.
P27'	1 Use only outdoors or in a well-ventilated area.
P273	3 Avoid release to the environment.
P280	0 Wear protective gloves/protective clothing/eye protection/face protection
P301	1+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330	0+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P36	1+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304	I+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P310: Immediately call a POISON CENTER/doctor.
P370	0+P378: Use for extinction: Water.
P305+3	351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P363	
P370	0+P378: In case of fire; Use for extinction: Water.
P39 [,]	1 Collect Spillage
P405	5 Store locked up
P50 ⁻	1
	Dispose of contents/container to special treatment scheme according to official regulations
	EUH031: Contact with acids liberates toxic gas. EUH206:
	Warning! Do not use together with other products. May release dangerous gases (chlorine)
2.3 Other Hazards Results of PBT and vPvB assessmen	nt
PBT: Not applicable. vPvB: Not applicable	

3. Composition/information on ingredients

3.2 Mixture

Calcium Hypoch	nlorite			
CAS No	ENICS No	Reg No	%	
7778-54-3	231-908-7		50 - 100%	
Hazards		Ox. Sol. 2, H272; Skin Corr. 1B, H31	4; Aquatic Acute	1, H400 (M=10); Acute Tox. 4, H302
Specific Concentration	Limits	Skin Corr. 1B; H314: C ≥ 5 %		Eye Dam. 1; H318: C ≥ 3 %
		Skin Irrit. 2; H315: 1 % ≤ C < 5 %		Eye Irrit. 2; H319: 0.5 % ≤ C < 3 %
calcium chloride	9			
CAS No	ENICS No	Reg No	%	
10043-52-4	233-140-8	01-2119494219-28-XXXX	<2%	
Hazards	Acute Tox. 4	I, H302; Eye Irrit. 2, H319		
calcium dihydro	xide			
CAS No	ENICS No	Reg No	%	
1305-62-0	215-137-3		<3%	
Hazards	Eye Dam. 1,	H318		
calcium chlorate	9			
CAS No	ENICS No	Reg No	%	
10137-74-3	233-378-2	01-2119485491-33-XXXX	<2%	
Hazards	Ox. Sol. 2, H	1272		

3. Composition/information on ingredients

3.2 Mixture

calcium carbonate

CAS No 471-34-1	ENICS No 207-439-9	Reg No 01-2119486795-18-XXXX
sodium chloride		
CAS No	ENICS No	Reg No
7647-14-5	231-598-3	01-2119485491-33-XXXX

4. First Aid measures

4.1 Description of first aid measures

General Information:

Symptoms and effects:

Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

IF INHALED:	In case of unconsciousness place patient stably in side position for transportation.
IF ON SKIN (or hair):	Rinse with warm water. Immediately wash with water and soap and rinse thoroughly.
IF IN EYES:	Rinse opened eye for several minutes (15) under running water. Then consult a doctor.
IF SWALLOWED:	Rinse out mouth and then drink plenty of water. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulty Coughing Nausea Gastric or intestinal disorders.

4.3 Indication of immediate medical attention and special treatment needed Treatment

Treat symptomatically

5. Fire fighting measures

5.1 Extinguishing media:

- In case of fire: Water Spray. Use fire extinguishing methods suitable to surrounding conditions
- DO NOT USE Extinguishing 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.

- 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
- 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

6.2 Environmental precautions

- Keep contaminated washing water and dispose of appropriately.
- 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

6.3 Methods and materials for containment and cleaning up

- Use neutralising agent.
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation

6.4 Reference to other sections

See Section 1 for emergency contact information See Section 7 & 8 for 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 OTHER PRODUCTS
- DO NOT DISSOLVE BEFORE USE
- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: Substance/product is oxidising when dry. Keep respiratory protective device available

7.2 Conditions for safe storage, including any incompatibilities.

Store only in unopened original receptacles. Do not store product where the average daily temperature exceeds 35°C. Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products Information about storage in one common storage facility: Store away from flammable substances. Store away from reducing agents. Do not store together with acids.

Further information about storage conditions: Keep receptacle tightly sealed.

7.3 Specific end uses

- No information available

8. Exposure control/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required. Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin

8. Exposure control/personal protection

Personal protective equipment

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed

Use suitable respiratory protective device when high concentrations are present.

Filter P2.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product

Due to missing tests no recommendation to the glove material can be given for the product

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed

Eye protection:

Tightly sealed goggles.

9. Physical and chemical properties

Form:	Powder
Colour:	Whitish
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	11.5
Change in condition	
Melting point/freezing point:	100 °C (decomp)
Initial boiling point and boiling range:	undetermined
Flash point:	Not applicable
Flammability (solid, gaseous)	Product is not flammable.
Decomposition temperature:	170 - 180 °C
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable
Density at 20 °C:	0.8 g/cm ³
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in Water at 20 °C:	217 g/l
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	Not applicable.
Solids content:	100.00%

10. Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: Do not store product where the average daily temperature exceeds 35°C. Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products

10.3 Possibility of hazardous reactions

NEVER MIX THIS PRODUCT WITH ORGANIC CHLORINE (TRICHLOR or DICHLOR) WITHIN THE SAME CONTAINER Reacts with strong oxidizing agents Reacts with alcohols, amines, aqueous acids and alkalis Reacts with flammable substances

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

Poisonous gases/vapours

11. Toxilogical Information

11.1 Information on toxilogical effects

Acute toxicity

Harmful if swallowed.

LD/LC50 values relevant for classification:				
Dermal LD50	>2,000	mg/kg	(rabbit)	
Inhalative LD50	1,300	mg/kg	(rat)	

CAS: 7778-54-3 calcium hypochlorite

Oral LD50	850	mg/kg	(rat)
Dermal LD50	>2,000	mg/kg	(rabbit)
Inhalative LD50	1,300	mg/kg	(rat)

Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage. Serious eye damage/irritation Causes severe skin burns and eye damage

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12. Ecological Information

12.1 Toxicity

Aquatic toxicity:

	96 hrs	0.088	mg/l	(bluegill sunfish)
Oral LC50	301115	0.16	mg/l	(rainbow trout)
	48 hrs	0.11	mg/l	(daphnia magna)

C AS: 7778-54-3 calcium hypochlorite

	96 hrs	0.088	mg/l	(bluegill sunfish)
Oral LC50	901115	0.16	mg/l	(rainbow trout)
	48 hrs	0.11	mg/l	(daphnia magna)

12.2 Persistence and degradability

Persistence and degradability An organic product, is not eliminable from water by means of biological cleaning processes.

12.3 Bioaccumlative potential

Partition coefficient: No information available

12.4 Mobility in soil Mobility

vPvB & PBT:

No information available

12.5 Results of PBT and PvB assessment

Not applicable

12.6 Other adverse effects

Other adverse 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

Recommendation

Must be specially treated adhering to official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport Information

14.1 UN Number

UN2880

14.2 UN proper shipping name

ADR IMDG IATA

14.3 Transport hazard class(es) ADR/IMDG Class Label

2880 CALCIUM HYPOCHLORITE HYDRATED MIXTURE CALCIUM HYPOCHLORITE HYDRATED MIXTURE CALCIUM HYPOCHLORITE HYDRATED MIXTURE

5.1 (O2) Oxidising substances. Label 5.1



14. Transport Information 14.3 Transport hazard class(es) IATA Class 5.1 Oxidising substances. Label Label 5.1 14.4 Packaging Group Ш 14.5 Environmental hazards Marine pollutant: Yes Yes Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) 14.6 Special precautions for user Warning: Oxidising substances. Danger code (Kemler): 50 F-H,S-Q EMS Number: Segregation groups Hypochlorites Stowage Category D Stowage Code SW1 Protected from sources of heat. SW11 Cargo transport units shall be shaded from direct sunlight. Packages in cargo transport units shall be stowed so as to allow for adequate air circulation throughout the cargo. SG35 Stow "separated from" SGG1-acids Segregation Code SG38 Stow "separated from" SGG2 - ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG53 Stow "separated from" liquid organic substances. 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable Other information ADR /IMDG Limited quantities (LQ) 1 ka Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30g Maximum net quantity per outer packaging: 500g Transport category 2 Tunnel restriction code Е 2880 CALCIUM HYPOCHLORITE HYDRATED MIXTURE, 5.1, II UN "Model Regulation":

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.

REGULATION (EU) No 528/2012 Best before : see date on packaging

Providing this container when empty is thoroughly rinsed out in the pool, it may be disposed of via the recycling scheme Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

National regulations

Waterhazard class: Water hazard class 2 (Assessment by list): hazardous for water. This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

Full text of H-statements referred to under sections 2 and 3

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Indicates updated section