

SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1 Product identifier	<p>Splash™ Shock Chlorine Granules Powerchlor (Calcium hypochlorite)</p>
1.2 Relevant identified uses of the substance or mixture and uses advised against	Intended use: chlorination of swimming pools
1.3 Details of the supplier of the SDS	<p>A & R Products Europa House Pivington Mill Pluckley Kent TN27 0PG</p> <p>SDS compiler: mail@arproducts.co.uk</p>
1.4 Emergency telephone number:	01233 841855 (Monday – Friday 9.00 – 17.00 hrs GMT)
SDS Issue 4: 18/05/2018 Replaces SDS dated 06/10/2017	

SECTION 2 HAZARDS IDENTIFICATION	
2.1 Classification of the substance or mixture <i>see section 16 for full text of hazard statements</i>	<p>Classification to CLP ((EC) No 1272/2008): Ox. Sol. 2; H272 Acute Tox. 4 *; H302 Skin Corr. 1B; H314 STOT SE 3; H335 Aquatic Acute 1; H400</p>
2.2 Label elements	<p>Labelling in accordance with CLP ((EC) No 1272/2008)</p> <div style="text-align: center;"> </div> <p style="text-align: right; margin-right: 20px;">DANGER</p> <p><i>Note: only the text is required on the label (not the statement codes)</i></p> <p> <i>H272</i> May intensify fire; oxidiser <i>H302</i> Harmful if swallowed <i>H314</i> Causes severe skin burns and eye damage. <i>H335</i> May cause respiratory irritation <i>H336</i> May cause drowsiness or dizziness. <i>H400</i> Very toxic to aquatic life. <i>P221</i> Take any precaution to avoid mixing with combustibles <i>P260</i> Do not breathe dust <i>P264</i> Wash hands thoroughly after handling <i>P303 + P361 + P353</i> IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. <i>P305 + P351 + P338</i> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. <i>P310</i> Immediately call a POISON CENTER or doctor/ physician. <i>P405</i> Store locked up <i>P501</i> Dispose of contents/container to authorised waste disposal contractor <i>EUH206</i> Warning! Do not use together with other products. May release dangerous gases (chlorine) <i>EUH031</i> Contact with acids liberates toxic gas. <i>P102</i> Keep out of reach of children. <i>P101</i> If medical advice is needed, have product container or label at hand. Contains calcium hypochlorite No other information is available. </p>
2.3 Other hazards	

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Ingredients:

see section 16 for full text of classification phrases

Name	EC No.	CAS No.	CLP Classification	%
Calcium hypochlorite	231-908-7	7778-54-3	Ox. Sol.2; H272 Skin Corr.1B; H314 Aquatic Acute1; H400 Acute Tox.4; H302 STOT SE3; H335	50-100
Calcium dihydroxide REACH Reg. no. 01-2119475151-45- xxxx	215-137-3	1305-62-0	Eye Dam.1; H318	<3
Calcium chloride REACH Reg. no. 01-2119494219-28- xxxx	233-140-8	10043-52-4	Eye Dam.2; H319	<2
Calcium chlorate	233-378-2	10137-74-3	Ox. Sol.2; H272	<2

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration and call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further information available

Effects: No further information available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Eye wash equipment should be available on the premises.
Treat symptomatically

SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Specific hazards arising from the substance or mixture

The substance itself does not burn, but in contact with combustible substances it increases the risk of fire and can fuel any existing fire substantially.

In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for fire-fighters

May intensify fire; oxidiser

In the event of fire, wear self-contained breathing apparatus.

Wear personal protective equipment.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. For personal protection see section 8.
6.2 Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3 Methods and material for containment and cleaning up	Oxidizing Material Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).. Treat recovered material as described in the section "Disposal considerations".
6.4 Reference to other sections	Personal protective equipment: See section 8

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling	Keep container tightly closed. Avoid formation of respirable particles. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Use respirator with appropriate filter if vapours or aerosol are released. Use personal protective equipment. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and the eyes.
7.2 Conditions for safe storage, including any incompatibilities	Keep only in the original container. Contact with combustible material may cause fire. Keep away from sources of ignition - No smoking. Oxidising Keep tightly closed in a dry and cool place. Keep away from heat. Keep away from acids. Keep away from food, drink and animal feedingstuffs.
7.3 Specific end use(s)	For chlorination of swimming pools

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters	Workplace Exposure Limits EH40 (WEL): LTEL (8hr TWA): 5 mg/m ³
8.2 Exposure controls	Refer to protective measures listed in sections 7 and 8. In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use self-contained breathing apparatus. Wear protective gloves The glove material has to be impermeable and resistant to the product / the substance / the preparation. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear. The following materials are suitable: polychloroprene or Neoprene gloves Eye protection: Tightly fitting safety goggles Skin and body protection: impervious clothing. Chemical resistant apron Environmental exposure controls: Do not flush into surface water or sanitary sewer system.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties – does not constitute a specification

Appearance	white solid (granules)
Odour	slight chlorine
Odour threshold	no data available
pH	10.5 – 11.5 (10g/l)
Melting Point/Freezing point (°C)	100
Initial boiling point/boiling range (°C)	no data
Flash Point (°C)(closed cup)	not applicable (non-flammable)
Evaporation rate	no data available
Flammability	not applicable (non-flammable)
Upper/lower flammability limits	not applicable (non-flammable)
Vapour pressure (mbar @ 20°C)	no data available
Vapour density	not applicable
Relative Density (g/cm ³)	1.3
Solubility in water	soluble (217 g/l @ 20°C)
Solubility in fat / solvent	not miscible
Partition coefficient (log Pow)	no data available
Autoignition temperature (°C)	not applicable (non-flammable)
Decomposition temperature (°C)	170 – 180
Viscosity (mPa.s @ 20°C)	not applicable (solid)
Explosive properties	not explosive
Oxidising properties	Oxidiser, may intensify fire

9.2 Other information None

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	see section 10.5
10.2 Chemical stability	Stable if stored and applied as directed
10.3 Possibility of hazardous reactions	Contact with combustible material may cause fire. Strong oxidizing agents. Amines and alcohols cause exothermic reactions. Contact with acids liberates very toxic gas. Reacts with alkalis
10.4 Conditions to avoid	Avoid temperatures >35°C (decomposition above 170°C)
10.5 Incompatible materials	Keep away from combustible material
10.6 Hazardous decomposition products	Chlorine oxides

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

-oral	LD50: 850 mg/kg (Rat)
-inhalation	No data available
-dermal	No data available

Corrosivity/Irritation

-eye	Risk of serious damage to eyes.
-skin	Corrosive effects
-respiratory system	Dust may be irritating to respiratory system

Sensitisation

-skin	No sensitizing effect known
-respiratory	No data available

germ-cell mutagenicity

No data available

carcinogenicity

No data available

reproductive toxicity

No data available

STOT single exposure

No data available

STOT repeated exposure

No data available

aspiration hazard

Not applicable

Other relevant toxicity information

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to fish:
LC50 (96 hr): 0.088 mg/l (Lepomis macrochirus (Bluegill sunfish))
LC50 (96 hr): 0.16 mg/l (Oncorhynchus mykiss (rainbow trout))
Toxicity to daphnia:
LC50 (48 hr) 0.11 (Daphnia magna (Water flea))

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No known PBT or vPvB chemicals present

12.6 Other adverse effects

Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Harmful effects to aquatic organisms due to pH-shift.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste Residue:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. European Waste Code: No waste code according to the European Waste Catalogue assigned for this product. The waste code is established in consultation with the regional waste disposer.
Packaging:	Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product

SECTION 14 TRANSPORT INFORMATION

Classified as dangerous goods for carriage under ADR/RID/ADN/IMDG/ICAO/IATA regulations

14.1 UN Number	UN 2880
14.2 UN Proper shipping name	CALCIUM HYPOCHLORITE, HYDRATED MIXTURE
14.3 Transport hazard class(es)	5.1
14.4 Packing group	II
14.5 Environmental hazards	Classified as Environmentally Hazardous Substance / Marine Pollutant
14.6 Special precautions for user	See section 8 for safe handling
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable to packaged goods

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	Supply regulations: Classified as hazardous under GHS/CLP criteria (GHS: Globally Harmonised system of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations) Transport regulations: Classified as Dangerous Goods for Carriage under ADR/RID/IMDG/ICAO/IATA regulations
15.2 Chemical Safety Assessment	No formal chemical safety assessment has been carried out

SECTION 16 OTHER INFORMATION

Full text of classification data in sections 2 and 3

Ox. Sol. 2; H272	Oxidising solids, category 2; May intensify fire; oxidiser
Acute Tox. 4 *; H302	Acute toxic, category 4; Harmful if swallowed
Eye Dam.1 ; H318	Eye damage category 1; Causes serious eye damage
Eye Irrit. 2; H319	Eye irritant, category 2; Causes serious eye irritation
Skin Irrit. 2; H315	Skin irritant, category 2; Causes skin irritation
STOT SE 3; H335	Specific target organ toxicity, single exposure, category 3; May cause respiratory irritation
Aquatic Acute 1; H400	Aquatic acute toxicity, category 1; Very toxic to aquatic life

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text