


SAFETY DATA SHEET – Splash™ Non-Chlorine Shock Granules

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	Splash™ Non-Chlorine Shock Granules Potassium peroxymonosulphate EC No. 274-778-7 CAS No. 70693-62-8
1.2 Relevant identified uses of the substance or mixture and uses advised against	Intended use: oxidation of swimming pools
1.3 Details of the supplier of the SDS	A & R Products (South East) Ltd Europa House Pivington Mill Pluckley Kent TN27 0PG SDS compiler: mail@arproducts.co.uk
1.4 Emergency telephone number:	01233 841855 (Monday – Friday 9.00 – 17.00 hrs GMT)
SDS Issue 1:	19/05/2012

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture <i>see section 16 for full text of H-and R- phrases</i>	<u>Classification to CLP ((EC) No 1272/2008):</u> Ox. Sol. 2; H272 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 ----- <u>Classification to DPD (1999/45/EC) and CHIP:</u> Oxidising O;R8, Corrosive C;R34 Dangerous for the environment N;R50/53 -----
2.2 Label elements	Labelling in accordance with CLP ((EC) No 1272/2008)  DANGER
<i>Note: only the text is required on the label (not the statement codes)</i>	<i>H272</i> May intensify fire; oxidiser <i>H314</i> Causes severe skin burns and eye damage <i>H410</i> Very toxic to aquatic life with long lasting effects <i>P221</i> Take any precaution to avoid mixing with combustibles <i>P280</i> Wear protective gloves/ protective clothing/eye protection/ face protection <i>P273</i> Avoid release to the environment. <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>P501</i> Dispose of contents/container to authorised waste disposal contractor Keep out of reach of children. If medical advice is needed, have product container or label at hand. Contains Potassium peroxymonosulphate
2.3 Other hazards	No other information is available.

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.	DSD Classn.	CLP Classification	%
Potassium peroxymonosulphate	274-778-7	70693-62-8	O; R8 C; R34 N; R50/53	Ox. Sol. 2; H272 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	98

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention..
Eye contact: In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention.
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: Hazardous in case of eye contact (corrosive).
Ingestion: Harmful if swallowed.
Inhalation: Overexposure by inhalation may cause respiratory irritation.
Delayed / immediate effects: Delayed effects can be expected after short-term exposure.

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

Eye wash equipment should be available on the premises.

SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Do not use water jet. Use flooding quantities of water. Avoid contact with organic materials.

5.2 Specific hazards arising from the substance or mixture

Oxidizing Material
Fire may cause evolution of harmful fumes such as sulphur oxides

5.3 Advice for fire-fighters

May intensify fire; oxidiser
In the event of fire, wear self-contained breathing apparatus.
Wear appropriate body protection (full protective suit)
Further information : Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting.
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	Adhere to personal protective measures. Take up mechanically (e.g. sweep or vacuum up) into a suitable container or slowly neutralise with alkali causing heat and oxygen to be generated. Label container and dispose of as prescribed .
6.2 Environmental precautions	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains, inform respective authorities.
6.3 Methods and material for containment and cleaning up	Oxidizing Material Avoid contact with a combustible material (wood, paper, oil, clothing, etc.). Keep substance damp using water spray. Do not touch spilled material. Eliminate all ignition sources. Dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Further information : 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	Handle in accordance with good hygiene and safety practice. Keep the raising and deposition of dust to a minimum. Keep away from heat. Keep away from combustible material and sources of ignition. Empty containers may still contain significant residual amounts of the product.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. Do not store above 40°C
7.3 Specific end use(s)	For oxidation of swimming pools

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters	LTEL (8 hour TWA): 10 mg/m ³ (total inhalable dust) LTEL (8 hour TWA): 4 mg/m ³ (respirable dust)
8.2 Exposure controls	Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation of working area (e.g. local exhaust ventilation) Dust respirator - be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Wear natural rubber latex protective gloves and replace at first signs of wear. Eye protection: Tightly fitting safety goggles (EN 166 approved) Skin and body protection: overalls Environmental exposure controls: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains, inform respective authorities. If material reaches soil inform authorities responsible for such cases.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	white solid (tablets)
Odour	odourless
Odour threshold	no data available
pH (solution 10g/l)	2 – 3 (acidic)
Melting Point/Freezing point (°C)	no data
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 (@15.5°C)	1 – 1.2 kg/l
Solubility in water	soluble (250 g/l @ 20°C; 330 g/l @ 70°C)
Solubility in fat / solvent	not miscible
Partition coefficient (log Pow)	no data available
Autoignition temperature (°C)	not applicable (non-flammable)
Decomposition temperature	no data available
Viscosity (mPa.s @ 20°C)	not applicable
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 at normal temperatures.
10.3 Possibility of hazardous reactions	see section 10.5. Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Decomposes at temperatures >70 °C
10.5 Incompatible materials	The product is incompatible with alkalis, combustible materials, cyanides and salts of heavy metals (e.g. cobalt, nickel, copper, manganese).
10.6 Hazardous decomposition products	With halogenated substances, halogens are evolved (e.g. mixed with sodium chloride, chlorine gas can be evolved). Sulphur oxides may be formed on heating

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	
-oral	Acute oral toxicity: LD50: >2000 mg/kg [Rat].
-inhalation	no information
-dermal	no information
Corrosivity/Irritation	
-eye	Corrosive as the solid. 25% and 3% aqueous solutions are highly irritant and non irritant respectively
-skin	
-respiratory system	May cause respiratory irritation
Sensitisation -skin	no information
Other relevant toxicity information	Not mutagenic in the Ames test

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Classified as very toxic to aquatic organisms. LC50 Fish (brachydanio rerio) 30-60 mg/l 24 hours LC50 Fish (zebra fish) 32-56 mg/l 24 hours EC50 Daphnia magna 5.3 mg/l 48 hours EC50 Bacteria (Pseudomonas putrida) 179 mg/l
12.2 Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances but biodegradability expected to be good
12.3 Bioaccumulative potential	Bioaccumulation is not expected
12.4 Mobility in soil	The product is mobile in water environment.
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.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	
Waste Residue:	Classified as Hazardous Waste. 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.
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 3260
14.2 UN Proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (potassium peroxymonosulphate)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
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 DPD/GHS/CLP criteria (DPD: Dangerous Preparations Directive; 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
Skin Corr. 1B; H314	Causes severe skin burns and eye damage
Aquatic Acute 1; H400	Aquatic acute toxicity, category 1; Very toxic to aquatic life
Aquatic Chronic 1; H410	Aquatic chronic toxicity, category 1; Very toxic to aquatic life with long lasting effects
O; R8	Oxidising; Contact with combustible material may cause fire
C;R34	Corrosive; Causes burns
N;R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N;R50/53	Dangerous for the Environment; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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