SAFETY DATA SHEET – Splash™ Multi Function Tablets

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

1.1 Product identifier	**Splash™ Multi Function Tablets**
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	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: 19/04/2012	

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

see section 16 for full text of H-and R- phrases

Classification to CLP ((EC) No 1272/2008):
Ox. Sol. 2; H272
Acute Tox. 4 *; H302
Eye Irrit. 2; H319
STOT SE 3; H335
Aquatic Acute 1; H400
Aquatic Chronic 1; H410

Classification to DPD (1999/45/EC) and CHIP:
Oxidising O;R8,
Harmful Xn;R22, R31,
Irritant Xi;R36/37
Dangerous for the environment N;R50/53

2.2 Label elements

Labelling in accordance with CLP ((EC) No 1272/2008)

DANGER

Note: only the text is required on the label (not the statement codes)

H272 May intensify fire; oxidiser
H302 Harmful if swallowed
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H410 Very toxic to aquatic life with long lasting effects

P221 Take any precaution to avoid mixing with combustibles
P261 Avoid breathing dust
P280 Wear protective gloves/ protective clothing/eye protection/ face protection
P273 Avoid release to the environment.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P501 Dispose of contents/container to authorised waste disposal contractor
EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine)
EUH031 Contact with acids liberates toxic gas.
Keep out of reach of children.
If medical advice is needed, have product container or label at hand.
Contains trichloroisocyanuric acid, boric acid

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	%
Trichloro-isocyanuric acid	201-782-8	87-90-1	O; R8 Xn; R22 Xi; R36/37 N; R50/53 R32	Ox. Sol. 2; H272 Acute Tox. 4 *; H302 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	97
Aluminium Sulphate	233-135-0	10043-01-3	Xi;R36/38	Eye Irrit. 2; H319 Skin Irrit. 2; H315	2-4
Copper sulphate REACH Reg. No. 01-2119520566-40-	231-847-6	7758-98-7	Xn; R22 Xi; R36/38 N; R50/53	Acute Tox. 4 *; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	2-4
Boric Acid	233-139-2	10043-35-3	Repr. 2 T;R60 R61	Repr. 1B; H360FD	0-2

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 (irritant). **Ingestion:** Harmful if swallowed. **Inhalation:** Hazardous in case of inhalation (lung irritant). 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 Contact with water liberates toxic gas (chlorine). Fire may cause evolution of: Chlorine, Nitrogen trichloride, Chlorine 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	Splash goggles. Protective overalls/suit. Dust respirator. Boots. Gloves. If there is a significant airborne concentration then suitable breathing apparatus should be used to avoid inhalation of the product. Select appropriate protective clothing for the size of the spillage. Provide adequate ventilation. Danger of slipping if spilled Avoid contact with skin and eyes. Do not breathe vapour.
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. If material reaches soil inform authorities responsible for such cases.
6.3 Methods and material for containment and cleaning up	Oxidizing Material Stop leak if without risk. 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 according to all federal, state and local applicable regulations. Neutralize the residue with soda ash. 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	Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Empty containers may still contain significant residual amounts of the product. Earth all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, alkalis, moisture..
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. Separate from acids, alkalis, reducing agents and combustibles. Do not store above 40°C
7.3 Specific end use(s)	For chlorination of swimming pools

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1 Control parameters	No Workplace Exposure Limits (WEL) have been allocated
8.2 Exposure controls	Refer to protective measures listed in sections 7 and 8. Dust respirator - be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Wear protective gloves and replace at first signs of wear – suitable materials: PVC gloves. Chemical resistant gloves Eye protection: Tightly fitting safety goggles 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	slight chlorine
Odour threshold	no data available
pH	2.7 – 3.3 (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 kg/l
Solubility in water	soluble (12g/litre @ 25°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
10.3 Possibility of hazardous reactions	see section 10.5
10.4 Conditions to avoid	Avoid high temperatures (>50 ºC) and high humidity
10.5 Incompatible materials	It attacks metals in general. It reacts with water (in small amount that can wet the product), oxidising and reducing agents, acids, alkalis, nitrogen products, ammoniacal salts, urea, amines, quaternary ammonium byproducts, oil, grease, peroxides, cationic active surfactants.
10.6 Hazardous decomposition products	In combination with the materials to avoid it decomposes and liberates a great amount of heat, chlorine, nitrogen trichloride, chlorine oxides etc. with the subsequent risk of explosion if the level of nitrogen trichloride is sufficiently high.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity		
	-oral	Acute oral toxicity: LD50: 406 mg/kg [Rat].
	-inhalation	no information
	-dermal	no information
Corrosivity/Irritation		
	-eye	Severe eye irritant
	-skin	no information
	-respiratory system	May cause respiratory irritation
Sensitisation	-skin	no information
Other relevant toxicity information		Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Classified as very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
12.2 Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances
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	All numerical values for ecotoxicity effects are calculated on the pure substances. Do not flush into surface water or sanitary sewer system.

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 2468
14.2 UN Proper shipping name	TRICHLOROISOCYANURIC ACID, DRY
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 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
Acute Tox. 4 *; H302	Acute toxic, category 4; Harmful if swallowed
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
Repr. 1B; H360FD	Reprotoxic, category 1B; May damage fertility. May damage the unborn child.
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
Xn; R22	Harmful; Harmful if swallowed
Xi; R36/37	Irritant; Irritating to eyes and respiratory system
Xi; R36/38	Irritant; Irritating to eyes and skin
T; R60	May impair fertility
T; R61	May cause harm to the unborn child
N;R50/53	Dangerous for the Environment; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R32	Contact with acids liberates very toxic gas.

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