Section 1. Identification of the material and the supplier

Product:	Pool Fast Energiser
Product Use:	Active ingredient in dry bleaches, dishwashing compound, scouring powder, detergent sanitizers, swimming pool disinfectants, water and sewage treatment, replacement for calcium hypochlorite.
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	Focus Products Pty Ltd 2 – 8 Freight Place Mangere South, Auckland
Telephone:	0800 000 903
Australian Supplier:	Focus Products Pty Ltd 35 Morton Street Heathwood QLD, 4110
Emergency Telephone:	
New Zealand:	**0800 764 766 (National Poison Centre)**
Australia:	**13 1126**
Date of SDS Preparation:	1 October 2018 v2

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Additives, Process Chemical and Raw Materials (subsidiary) – HSR002503

Pictograms

Toxic/Irritant Ecotoxic
Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
9.1A	H400	Very toxic to aquatic life.	Aquatic Acute 1
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing.

Response Code Response Statement

P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Disposal Code Disposal Statement

P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	CAS NUMBER.	Wt%
Sodium Dichloroisocyanurate, dihyrdate	51580-86-0	90
Aluminium Sulfate	10043-01-3	10

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If irritation occurs get medical advice.
If Swallowed	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Inhalation:	Inhaling dust may result in respiratory irritation. Chlorine, evolved from decomposition when wet, is a severe respiratory irritant, corrosive, and highly toxic. Delayed effects can include shortness of breath, headache, pulmonary oedema, and pneumonia.
Ingestion:	Swallowing can result in nausea, vomiting, diarrhea, abdominal pain and chemical burns to the gastrointestinal tract.
Eye:	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury
Skin:	Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	Toxic chlorine gas.
Suitable Extinguishing media	Water spray (flooding quantities).
Precautions for firefighters and special protective clothing	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection. Non-combustible, but contact with combustible material may cause fire. Containers may explode when heated.
HAZCHEM CODE	**2Z**

Section 6. Accidental Release Measures

Emergency Procedures:

Wear full protective equipment to prevent skin and eye contamination and inhalation of vapours. Avoid contact with other materials. Do not return spilled product to original container. Do not add water to the product. To neutralise, add sodium sulfite (2.4kg / kg product). If no active chlorine remains, add soda ash (1.1 kg / kg product) to achieve complete neutralisation.

Manually collect product and seal in containers for disposal. Do not allow product to enter drains or waterways. Where a spill has occurred in a confined space or in an inadequately ventilated enclosure and the material is damp and evolving chlorine, the rate of chlorine evolution can be reduced by covering the thinly spread solid with soda ash.

Section 7. Handling and Storage

Handling

- Keep out of reach of children.
- Read label before use.
- Avoid breathing dust, or contact with skin or eyes.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing.

Storage

- Store in a cool, dry, well ventilated place and out of direct sunlight.
- Store away from incompatible materials listed in Section 10.
- Keep containers closed and dry when not in use. Material reacts with water.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³
Chlorine	1	3	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA).The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

Personal Protection Equipment

Eyes	Avoid contact with eyes. Do not spray near eyes. Use safety glasses with side shields and a face shield. Avoid wearing contact lenses.
Skin	Wear protective gloves and protective clothing appropriate for the risk of exposure.
Respiratory	If engineering controls do not maintain airborne concentrations below recommended exposure limits, use an approved full face supplied air respirator. See Australian Standards AS/NZS 1715 and 1716 for more information.

General	Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Section 9 Physical and Chemical Properties

Appearance	Granular powder
Colour	White
Odour	Slight Chlorine Odour
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Freezing/Melting Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity (water = 1)	Not available
Water Solubility	Soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Bulk Density	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal circumstances. Strong oxidiser.
Possibility of hazardous reactions	Not available
Conditions to Avoid	Heat and moisture.
Incompatible Materials	No data available.
Hazardous Decomposition Products	Toxic chlorine gas.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhea, abdominal pain and chemical burns to the gastrointestinal tract. Mixture rule calculation = LD50 = 518 mg/kg
Dermal	Not applicable.
Inhalation	Inhaling dust may result in respiratory irritation. Chlorine, evolved from decomposition when wet, is a severe respiratory irritant, corrosive, and highly toxic. Delayed effects can include shortness of breath, headache, pulmonary oedema, and pneumonia.

Eye	Causes serious eye irritation.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Aluminium Sulfate (10043-01-3)	770 mg/kg (mouse)	-	-

Section 12. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life.
9.3C = Harmful to terrestrial vertebrates.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Individual component information (Please refer to www.epa.govt.co.nz for full details):

Sodium Dichloroisocyanurate, dihyrdate (Cas No 51580-86-0):

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Oncorhynchus mykiss Rainbow trout, Donaldson trout	96 hr (static)	0.25 mg/L
Acute aquatic, Crustacean	Daphnia magna	48 hr (static)	0.28mg/L
Harmful to terrestrial vertebrates	Colinus virginianus	14 Days	LD50 = 1776mg/kg
Bioaccumulative	Not Determined		
Rapidly Degradable	No		

Aluminium Sulfate (Cas No 10043-01-3):

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Salvelinus fontinalis	96 hr (static)	3.6 mg/L
Harmful to terrestrial vertebrates	Mouse	-	LD50 = 770mg/kg
Bioaccumulative	Not Determined		
Rapidly Degradable	Not Determined		

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:
Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Ecotoxic" and that the label also has the Ecotoxic Pictogram, waste type identifier, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Road and Rail Transport

UN No:	3077
Class-primary	9
Packing Group	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

Air Transport

UN No:	3077
Class-primary	9
Packing Group	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

Marine Transport

UN No:	3077
Class-primary	9
Packing Group	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

Limited Quantities Statement:
If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Additives, Process Chemical and Raw Materials (subsidiary) – HSR002503

HSNO Classification: 6.1D (Oral), 6.3A, 6.4A, 9.1A, 9.3C

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required

Signage Trigger Quantities (Schedule 3)	100Kg (9.1A)
Emergency Response Plan (Schedule 5)	100Kg (9.1A)
Secondary Containment (Schedule 5)	100Kg (9.1A)
Tracking (Schedule 26)	Not required
Restriction of Use	Only use for the intended purpose.
Hazardous Property Controls Notice 2017	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances

Section 16 Other Information

Glossary

EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the Focus Products, if further information is required.

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