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FOCUS FLOC / POOL FAST POOL FLOC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Focus Floc / Pool Fast Pool Floc
Product Code	-
Other Names	Alum, Cake Alum
Product Use	Water and waste treatment, tanning agent, paper and pulp processing and food additive.
Company Name	Focus Products Pty Ltd
Address	35 Moreton St Heathwood QLD 4110
Telephone Number	1300 1 36287
Emergency Telephone	0411 623 619 (A/H)

2. HAZARDS IDENTIFICATION

NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Not classified as hazardous according to the criteria of Safe Work Australia.

Hazards	-
Risk Phrases	-
Safety Phrases	S2 - Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Aluminium sulphate	10043-01-3	100%

4. FIRST AID MEASURES

Inhalation	If inhaled, move to fresh air. Seek immediate medical attention.
Ingestion	If swallowed rinse mouth thoroughly with water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water for at least 15 minutes. Seek immediate medical attention.
Eyes	If in eyes, hold eyelids apart and flush the eye continuously with running water for at least 15 minutes. Seek immediate medical attention.

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5. FIRE FIGHTING MEASURES

	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.
Suitable Extinguishing Media	Use equipment / media appropriate to surrounding fire.
Hazardous Combustion Products	Sulfur oxides, hydrolyzes to dilute sulfuric acid.
Firefighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	None known.
Hazchem Code	Not allocated.

6. ACCIDENTAL RELEASE

Spills	Wear suitable protective clothing. Avoid dust formation. Carefully vacuum or sweep up spill and place in suitable containers for reuse or disposal.
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7. HANDLING AND STORAGE

Handling	Do not breathe mist or vapour at concentrations greater than the exposure limits. Do not get in eyes and avoid contact with skin and clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	Store in a cool dry place away from structural steel. Keep containers tightly closed. Avoid dust formation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)	Aluminium, soluble salts (as Al): TWA: - ppm / 2 mg/m ³ STEL: - ppm / - mg/m ³
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.
Respiratory Protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits, use a Safe Work Australia approved full face supplied air respirator. See Australian Standards AS/NZS 1715 and 1716 for more information.
Eye Protection	Wear safety glasses with side shields (or goggles) and a face shield. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
Skin Protection	Wear protective gloves and protective clothing appropriate for the risk of exposure. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information

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Hygienic Practices

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White lustrous crystals, granules or white powder
Odour	Odourless
Solubility in water	Soluble (280 g/L @ 20°C)
Boiling Point	Not applicable
Melting point	86°C
Vapour Pressure (mm of Hg @ 25°C)	Not applicable
Specific Gravity (water = 1)	1.7
pH	No information available
Flash Point	Not flammable
Flammable Limit – Lower	Not applicable
Flammable Limit – Upper	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal circumstances. On contact with moisture is readily hydrolysed to sulphuric acid. Corrosive to metals in the presence of moisture.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Sulfur oxides, hydrolyzes to dilute sulfuric acid.
Hazardous Polymerization Conditions to Avoid	Will not occur. Moisture.

11. TOXICOLOGICAL INFORMATION

Toxicity	Oral LD ₅₀ (rat) > 5000 mg/kg Oral LD ₅₀ (mouse) > 5207 mg/kg
Routes of Exposure	Inhalation, ingestion, eye and skin
Health effects from likely routes of exposure	Inhalation: Dust forms sulphuric acid in contact with moisture in air or in tissues; can cause sore throat, coughing and irritation of nose and throat. High concentrations may cause congestion and constriction of airways. Ingestion: May cause abdominal pain, nausea and vomiting. Concentrated solutions (over 200%) can cause burns of the mouth, bleeding stomach, in-coordination, muscle spasms and kidney injury. Eye: Dust can cause irritation and inflammation of the eyes. Concentrated

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solutions may cause severe eye damage.

Skin: Dust and concentrated solutions can cause irritation, especially of open cuts.

Effects of Overexposure Prolonged exposure can cause irritation and numbing of the fingers. Repeated ingestion may cause phosphate deficiency, which can weaken bones. Ingested material is not easily absorbed. It reacts with phosphate, forming an insoluble compound, which is readily passed out of the body. Inhaled dust must accumulate in the lungs until slowly cleared.

Existing Conditions No information available.

Aggravated by Exposure

Carcinogenicity

This product does NOT contain any IARC listed chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxicity No information available.

Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers Dispose according to applicable local and state government regulations.

Special precautions for landfill or incineration Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail (ADG 7).

UN Number	Not applicable
Proper Shipping Name	Not applicable
Dangerous Goods Class	Not applicable
Subsidiary Risk	Not applicable
Hazchem Code	Not applicable
Packing Group	Not applicable
Special Provisions	Not applicable
Limited Quantities	Not applicable
Packagings & IBCs - Packing Instruction	Not applicable
Packagings & IBCs - Special Packing Provisions	Not applicable
Portable Tanks & Bulk Containers – Instructions	Not applicable
Portable Tanks & Bulk Containers – Special Provisions	Not applicable

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15. REGULATORY INFORMATION

Aluminium sulphate is listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Last Revision of MSDS Rev 2.0 (13/06/2012)
Prepared by MSDS.COM.AU Pty Ltd

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Abbreviations Used IARC: International Agency for Research on Cancer
STEL: Short term exposure limit
TWA: Time weighted average

Emergency Contacts

Focus Products Pty Ltd	1300 1 36287
Focus Products Pty Ltd – Emergency Number	0411 623 619 (A/H)
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

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Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]