

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Richgro Blueing Tonic
Other Names: Aluminium Sulphate, Sulphuric Acid, Aluminium Salt (3:2), Octadecahydrate
Product Code: FRI0135
Product Use: In Horticulture – for blueing Hydrangeas
Company Name: Richgro Garden Products
Company Address: 203 Acourt Road, Jandakot WA 6164
Telephone Number: (08) 6258 7100 or Toll free 1800 455 132
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Email: customerservice@richgro.com.au
This version issued: December 2016 and is valid for 5 years from this date.

SECTION 2 - HAZARDS IDENTIFICATION

Statement of Hazardous Nature

This product is classified as: Not classified as hazardous according to the criteria of SWA.
Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

SUSMP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

UN Number: None allocated

GHS Signal word: NONE. Not hazardous.

PREVENTION

P102: Keep out of reach of children.

RESPONSE

P353: Rinse skin or shower with water.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P332+P313: If skin irritation occurs: Get medical advice.
P337+P313: If eye irritation persists: Get medical advice.
P391: Collect spillage.
P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

P402+P404: Store in a dry place. Store in a closed container.

DISPOSAL

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Proportion of Ingredients
Aluminium Sulphate	7784-31-8	100%

SECTION 4 - FIRST AID MEASURES

General Information:

Inhalation:

Remove affected person from exposure to fresh air. In emergency situation, if breathing is difficult give oxygen. If the affected person suffers cardiac arrest commence cardio-pulmonary resuscitation immediately and seek urgent medical attention.

Skin Contact:

Remove all contaminated clothing and shoes. Wash affected skin with plenty of water. Seek medical attention if irritation develops.

Eye Contact:

Irrigate eyes immediately with plenty of water for at least 15 minutes while holding eyelids open. Seek medical attention immediately.

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Ingestion: Rinse mouth with water and give water to drink provided person is conscious. **DO NOT** induce vomiting. Seek medical attention.
Advice to Doctor: Treat symptomatically based on individual reactions of patient.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability: Non-flammable and does not support combustion.
Extinguishing Media: Non-flammable and does not support combustion. In case of fire, use water, chemical foam, or carbon dioxide (CO₂). Fire Fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.
Hazard from Combustion
Products: Non-combustible solid. Not considered to be a fire or explosion hazard. Incompatible materials have not been reported.
Hazchem Code: None allocated.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Accidental release:
Any spillage should be cleaned up promptly and swept up. Prevent run off into drains and waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Personnel involved in the clean up should wear full protective clothing as listed in Section 8.

SECTION 7 - HANDLING AND STORAGE

Handling:
Observe good personal hygiene practices and recommended procedures and wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Inspect regularly for deficiencies such as damage or leaks
Storage:
Store in a cool, dry and well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Store away from strong oxidising agents. Aluminium sulphate absorbs moisture and becomes a safety hazard when spilled because it will become very slippery.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards No exposure standard has been established for this product by the ASCC. However, ASCC recommended value for inhalable particulates is 10mg/m³ (for inspirable dust), 3mg/m³ (for respirable dust).
Exposure Limits No data available
Biological Limits: No information available on biological limit values for this product.
Engineering Controls: A system of local and/or general exhaust is recommended to keep exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Eye Protection: Safety glasses with side shields (AS1336/1337).
Skin Protection: Wear rubber or PVC gloves (AS2161).
Protective Material Types: Long sleeved protective clothing and safety footwear (AS3765/2210).
Respirator: Wear an air supplied respirator, where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & colour: White to brownish solid.
Odour: Odourless
Boiling/Melting Point: No data available
Freezing Point: 770°C (decomposes)
Vapour Pressure: No data available.
Vapour Density: No data available.
Bulk Density: No data available
Specific Gravity: No data available
Solubility: 87g/100cc water at 27°C

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pH:	3.5
Flammability:	Not flammable
Corrosion Rate:	No data available.
Evaporation Rate:	No data available.
Upper & Lower flammable (explosive) limits in air:	Not relevant
Flash point and method of Detecting flash point:	No data available
Ignition temp:	Not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Product is stable under normal conditions of use, storage and temperature. Incompatible materials have not been reported. However, this product is corrosive to metals in the presence of water. When involved in a fire, this product may generate sulphur oxides hydrolysis to form dilute sulphuric acid.
Decomposition products:	Hazardous polymerisation will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Health Effects:	Oral LD50 Rat: >5000mg/Kg, Special properties/effects: Astringent
Inhalation:	No information available on the symptoms of inhalation for this product.
Skin:	May cause slight irritation to the eyes.
Eye:	May cause slight irritation to the eyes.
Swallowed:	Irritations of the mucous membranes in the mouth, pharynx, esophagus and gastro-intestinal tract.
Carcinogen Category:	0

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Quantitative data on the ecological effects of this product are not available.

Further ecological data:

The following applies to aluminium compounds in general: for acidic aluminium compounds; biological effect; toxic for water organisms. Fish: toxic as from 0.55mg/L; in very soft water toxic as from 0.1mg/L; crustaceans; D magna toxic as from 136mg/L; algae : Sc aquadricauda toxic as from 1.5mg/L (all values referring to dissolved Al).

In the case of alkaline compounds, flocculation may cause mechanical damage in aquatic organisms. The following applies to sulphate in general: biological effects: fish: toxic as from 7g/L; bacteria; toxic as from 2.5g/L

No ecological problems are to be expected when the product is handled and used with due care and attention.

Persistence and Degradability:

No information available on persistence/degradability for this product.

Mobility:

No information available on mobility for this product.

Environmental Fate:

Avoid contaminating waterways, drains or sewers.

Bioaccumulative Potential:

No information available on bioaccumulation for this product.

Environmental Impact:

No data available.

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SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal:

Dispose of in accordance with local, state and federal regulations.

All empty packaging should be disposed of in accordance with Local, State and Federal Regulations or recycled/reconditioned at an approved facility. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

SECTION 14 - TRANSPORT INFORMATION

ADG Code:	Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).
UN Number:	No data available.
UN Proper Shipping Name:	Aluminium Sulphate
Class and Subsidiary Risk:	No data available.
Packing Group:	No data available.
EPG:	No data available.
Hazchem Code:	No data available.

SECTION 15 - REGULATORY INFORMATION

Australian Regulatory Information:

General Information:

No data available

Poison Schedule:

No data available

Australian Inventory of Chemical Substances (AICS) Name:

Sulfuric Acid, Aluminium Salt (3:2), Octadecahydrate

SECTION 16 - OTHER INFORMATION

This SDS contains only safety-related information - for other data see Product Specification.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition
AICS	Australian Inventory of Chemical Substances
CAS Number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
LD50	Lethal Dose 50. The single dose of a substance that caused the death of 50% of an animal population from exposure to the substance by any route other than inhalation.
mg/m3	Milligrams per cubic metre
mg/kg	Milligrams per kilogram
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
SWA	Safe Work Australia, formerly ASCC and NOHSC
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product