

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Sulfate of Potash
Other Names: Mega Booster Potash, Sulphate of Potash, Potassium Sulfate, SOP
Product Use: Fertiliser in Agriculture and Horticulture, general purpose food additive
Company Name: Richgro Garden Products
Company Address: 203 Acourt Road Jandakot WA 6164
Telephone Number: (08) 6258 7100 or Toll Free 1800 455 132
Fax Number: (08) 9455 1297 or Toll Free 1800 671 297
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

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

P353: Rinse skin with water / shower.

P363: Wash contaminated clothing before reuse.

P370+P378: In case of fire. Use extinguishing media suited to burning materials.

STORAGE

P402: Store in a dry place.

P403: Store in a well-ventilated place.

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	Conc. %
Dipotassium Sulfate	7778-80-5	96%
Potassium Chloride	7447-40-7	<4%

SECTION 4 - FIRST AID MEASURES

General Information:

Drinking water and eyewash facilities should be available whenever fertilisers are in regular use.

Inhalation: If over exposure occurs remove the affected person from exposure to fresh air. Keep warm and at rest. In emergency situations, 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 area gently and thoroughly with warm water (use non-abrasive soap if necessary). If irritation develops seek immediate medical attention.

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Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes while holding eyelids open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Seek medical attention if irritation develops.

Swallowed: If person is conscious, rinse mouth thoroughly with water immediately and give water to drink.

DO NOT induce vomiting. Seek medical attention immediately if there is pain or difficulty with swallowing.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability: Non flammable and does not support combustion.
Extinguishing Media: Non flammable and does not support combustion.
Hazard from combustion products: Non-combustible solid. When heated above 1066°C Sulfate of Potash may yield toxic oxides of sulfur.
Hazchem Code Not 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.

SECTION 7 - HANDLING AND STORAGE

Handling: Segregate from food or foodstuffs, oxidizing agents (Class 5) and acids (Class 8) when transporting.
Storage: Store in a cool, dry and well-ventilated area. Avoid contact with moisture, as it will cause product-handling problem. Store away from oxidizers, acids and from food or drink. Violent explosion occurs when Sulfate of Potash is melted with aluminium.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards

No exposure standard has been established for this product by the ACGIH.

However, ACGIH recommended value for inhalable particulates is 100mg/m³ (TLV/TWA).

Note: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

TLV = Threshold Limit Value

Engineering Controls: Ensure adequate local and/or general exhaust ventilation to avoid high dust concentration.

Personal Protective Equipment

Ventilation: Use in well ventilated areas. Avoid high dust concentration.

Eye Protection: Wear chemical safety glasses with side shields to prevent eye contact.

Skin Protection: Prevent skin contact by wearing long sleeves, long trousers, impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered.

Protective Material Types: Wear rubber or PVC gloves to prevent skin contact.

Respirator: If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a P2 type canister respirator.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & colour: Colourless to white hard crystals or powdered solid.
Odour: Odourless.
Boiling Point: 1689°C at 100 kPa.
Freezing/Melting Point: 1067°C
% Volatiles: Not available.
Vapour Pressure: Does not exert significant vapour pressure.
Vapour Density: Not available.
Solubility: Soluble in water (12g/100g water at 20°C), not soluble in water or acetone.
pH of 10% solution: 3 - 4
Specific Gravity/Bulk Density: 2.66/1.03 – 1.20t/m³
Flammability: Not flammable.
Flash Point: Not Relevant
Upper & Lower Flammable

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(Explosive limits in air) Not Relevant.
Evaporation Rate: Not available.
Autoignition temp: Not available.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Incompatible with aluminium, magnesium or sodium sulphate and may explode in combination with these at temperature exceeding 800°C.

Incompatibilities: Corrosivity similar to common salt. In the presence of moisture, Sulfate of Potash is mildly corrosive to cement, mild steel, zinc and copper.

Decomposition Products: No data available.

SECTION 11 - TOXICOLOGICAL INFORMATION

Health Effects: Low toxicity. Use safe work practices to avoid eye or skin contact and dust inhalation. Sulfate of Potash is relatively non toxic when ingested in small quantities. Acute potassium intoxication is rare since the potassium ion tends to cause vomiting. Ingestion of large quantities may cause gastrointestinal irritation.

Inhalation: High dust concentration of air-borne material may cause irritation to the nose and upper respiratory tract. Symptoms may include coughing, shortness of breath and sore throat.

Skin: Prolonged contact may cause some irritation, including redness and itching. No harmful effects from skin absorption have been recorded.

Eye: May cause irritation, redness and pain following contact.

Swallowed: Present low toxicity, unless large amounts are ingested. Potassium Sulfate is slowly absorbed from the alimentary tract and because of osmotic activity it will draw water into the lumen of the bowel. Consequently, massive doses exceeding about 100gms of Potassium Sulfate give rise to severe gastrointestinal irritation, with symptoms such as nausea, vomiting, diarrhea, irregular heart beats (arrhythmia), dehydration and hypertension. Smaller doses will likely irritate the mouth, esophagus, stomach etc.

Toxicity Data:

Dipotassium sulphate (7778-80-5)

LDLo (Subcutaneous): 3000mg/kg (guinea pig)
TDLo (Ingestion): 750mg/kg (woman)
LD50 (Ingestion): 6600mg/kg (rat)
LDLo (Ingestion): 750mg/kg (woman)

Potassium chloride (7447-40-7)

LDLo (Intravenous): 77mg/kg (guinea pig)
LDLo (Intraperitoneal): 900mg/kg (guinea pig)
LD50 (Intraperitoneal): 620mg/kg (mouse)
LDLo (Subcutaneous): 2120mg/kg (frog)
TDLo (Ingestion): 60 mg/kg/days (woman)
LD50 (Ingestion): 1500 mg/kg (mouse)
LDLo (Ingestion): 20 mg/kg (man)
LD50 (Intravenous): 117 mg/kg (mouse)

SECTION 12 - ECOLOGICAL INFORMATION

This product is not anticipated to cause any adverse effects to plants or animals.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: Dispose of on a farm, or authorised waste facility in accordance with statutory requirements.

Clean up personnel should vacuum or wet sweep to avoid dust dispersal.

Contact the Manufacturer if additional information is required.

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Legislation: Dispose of in accordance with relevant local and state legislation.

SECTION 14 - TRANSPORT INFORMATION

Land Transport:	Regulation name - ADG
UN Number:	None allocated.
UN Proper Shipping Name:	None allocated.
Class and Subsidiary Risk:	None allocated.
Packing Group:	None allocated.
EPG:	None allocated.
Hazchem Code:	None allocated.

SECTION 15 - REGULATORY INFORMATION

Australian regulatory information:

A poison schedule number has not been allocated to this product using the criteria in the Standard of the Uniform Scheduling of Drugs and Poisons (SUSDP)

All chemicals listed on the Australian Inventory of Chemical Substances (AICS)

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
LD/Lo	The lowest dose in an animal study in which lethality occurred.
LD/50	Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation
mg/m3	Milligram per cubic metre
mg/kg	Milligram 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