

Infosafe No™ 5GF80	Issue Date : June 2020	Status : ISSUED
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 Product Name **BioAgSoP**

Not classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	BioAgSoP
<b>Company Name</b>	BioAg Pty Ltd (ABN 58 086 880 211)
<b>Address</b>	22-26 Twynam Street Narrandera NSW 2700 Australia
<b>Telephone/Fax Number</b>	Tel: +61 2 6958 9911 Fax: +61 2 6959 9922
<b>Emergency phone number</b>	+61 428 640 070 (All Hours)
<b>E-mail Address</b>	sales@bioag.com.au
<b>Recommended use of the chemical and restrictions on use</b>	Potassium fertiliser

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
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## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Potassium Sulphate	7778-80-5	100 %

## 4. First-aid measures

<b>First Aid Measures</b>	Non-hazardous material. If experiencing persistent irritation, seek medical advice from a physician or contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0800 764 766).
<b>Inhalation</b>	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If breathing difficult, give oxygen. Seek medical assistance.
<b>Ingestion</b>	Rinse mouth with water. Do NOT induce vomiting. If swallowed, drink water. If vomiting occurs give further water. For assistance, contact a Poisons Information Centre on 13 11 26 (Australia) or a doctor at once.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with water. If irritation occurs and persists contact a Poisons Information Centre or a doctor.
<b>Eye contact</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
<b>Advice to Doctor</b>	Treat symptomatically. Show this SDS to the medical practitioner.

## 5. Fire-fighting measures

<b>Fire Fighting Measures</b>	The material is non-flammable. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Use waterfog to cool intact containers and nearby storage areas.
<b>Suitable extinguishing media</b>	Use extinguishing media suitable to surrounding fire conditions.
<b>Hazards from Combustion Products</b>	May evolve toxic gases (sulphur oxides) when heated to decomposition.
<b>Special Protective Equipment for fire fighters</b>	Wear full protective equipment and a self-contained breathing apparatus (SCBA).

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## 6. Accidental release measures

<b>Methods and materials for containment and cleaning up</b>	Contain spillage, then cover/absorb spill with non-combustible absorbent material (vermiculite, sand or similar). Recover spilt fertiliser as soon as possible. If in a warehouse and the product has not been contaminated or degraded, return it to the original stockpile. Otherwise, store in a separate bay or containers. If in the open and the product cannot be immediately recovered, take steps to protect the product from the elements and loss to waterways. Cover the spilt product with a waterproof, weighed down tarpaulin.
<b>Spills &amp; Disposal</b>	Any spillage should be contained promptly. Collect and place in suitable containers for disposal. Avoid generating dust. Recover contained product and recycle if possible. In agricultural fields, spread any residual fertiliser out over as wide an area as possible. If left too thick, plant growth may be affected. Plants may die and germination and emergence stifled for some time. If not recyclable, dispose of waste via an authorised waste facility in accordance with statutory requirements.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Before use carefully read the product label. Use safe work practices. Avoid eye and skin contact and dust inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. Bunding the mixing and liquid storage areas can prevent loss to watercourses in the event of a spill.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry, well-ventilated place. Do not allow to get wet. Fertilisers should be stored away from farm chemicals (e.g. insecticides, fungicides and herbicides). Bulk fertilisers should be stored in bays or piles physically apart from other products. Concrete floors are recommended. Fertiliser may set in storage, posing a risk of engulfment when being removed from the stockpile. It is generally recommended that fertiliser not be placed in a silo. Ensure stockpiles of bulk bags are stable. Place the bags as close as reasonably practical to each other without causing undue damage. Bagged fertilisers should be stored under cover and out of direct sunlight (which degrades woven polypropylene packs). If stored in the open, do so for short periods only and cover the bags with a tarpaulin. Avoid high stacking as this promotes caking.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	SWA for nuisance dust: 10mg/m <sup>3</sup>
<b>Appropriate engineering controls</b>	Avoid generation of dust and inhalation. Maintain dust levels below the recommended exposure standard. Ensure ventilation is adequate. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Ensure an eyewash system is available.
<b>Respiratory Protection</b>	Wear a dust mask where exposure to dust is light. Where the dust nuisance is high and ventilation is inadequate, use a properly fitted particulate filter respirator, either full face-piece or half mask plus goggles, that meets Australian Standards AS/NZS 1715 and AS/NZS 1716.
<b>Eye Protection</b>	Where eye contact may occur, wear safety glasses with side shields.
<b>Hand Protection</b>	Cotton gloves, which can be washed or disposed of if heavily soiled, will suffice under most circumstances. Use impervious PVC or rubber gloves in high risk situations.
<b>Personal Protective Equipment</b>	Wash dust from hands and exposed skin. In risk situations, locate an eyewash station nearby. Wash contaminated clothing and other protective equipment before storage or reuse. Ensure all PPE conforms to the relevant Australian Standards. Read the labels on the PPE.
<b>Body Protection</b>	Where skin contact may occur and for individuals with sensitive skin, wear ankle length and long sleeved clothing or overalls.

## 9. Physical and chemical properties

<b>Form</b>	Powder
<b>Appearance</b>	Colourless to white granules/ coarse crystals or powder

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<b>Odour</b>	Odourless
<b>Melting/Freezing Point</b>	1069 C
<b>Boiling Point</b>	1689 C
<b>Solubility in Water</b>	11%w/v @ 20 C
<b>Specific Gravity</b>	2.66 - 2.68
<b>pH</b>	3.0 - 9.0
<b>Density</b>	1200 - 1400 kg/m <sup>3</sup> (bulk)
<b>Flammability</b>	Non-flammable

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under recommended conditions of storage.
<b>Conditions to Avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Incompatible Materials</b>	Incompatible with oxidising agents (e.g. hypochlorites). Sulfate is compatible in dry blends with most fertilisers. Solution grades of potassium sulfate should not be dissolved in water with soluble calcium fertilisers (e.g. calcium nitrate) as calcium sulfate (gypsum) will be precipitated.
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (sulphur oxides) when heated to decomposition.
<b>Hazardous Polymerization</b>	Not expected to occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	This product is expected to be of low toxicity. Under normal conditions of use, adverse health effects are not anticipated. Use safe work practices to avoid eye contact, prolonged skin contact and dust generation (i.e. dust inhalation).
<b>Acute Toxicity - Oral</b>	Potassium sulfate: Oral LD50 (rat) - 6,600 mg/kg LDLo ingestion (woman) - 750 mg/kg LDLo subcutaneous (guinea pig) - 3,000 mg/kg TDLo ingestion (woman) - 750 mg/kg
<b>Ingestion</b>	Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.
<b>Inhalation</b>	Low irritant. Over exposure may result in irritation of the nose and throat with coughing.
<b>Skin</b>	Low irritant. Prolonged or repeated exposure to dust may result in irritation and dermatitis.
<b>Eye</b>	Low to moderate irritant. Contact may result in irritation, lacrimation, pain and redness.
<b>Chronic Effects</b>	Not classified as causing organ damage from repeated exposure.

## 12. Ecological information

<b>Environmental Protection</b>	The product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities. Loss of potassium fertilisers to waterways does not constitute the same risk of environmental harm as do nitrogen and phosphorus fertilisers. Potassium concentrations in ground and surface water are inherently higher than for nitrogen and phosphorus, so enrichment with potassium has a less pronounced effect. Eutrophication of waterways with nitrogen and/or phosphorus is likely to stimulate plant and algae growth. This is unlikely to occur with potassium. The loss of sulfate of potash (potassium sulfate) in large quantities to waterways, in which the product is confined and there is inadequate dilution, will increase the salinity status of the water and may affect fresh water species. Potassium and sulfate are abundant in sea water.
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### 13. Disposal considerations

<b>Product Disposal</b>	Use up product completely. Ideally, the fertiliser should be used for its intended purpose. Beneficial reuse is the preferred disposal option. If the fertiliser is contaminated with other fertilisers, soil or other non-harmful substances, and it can be satisfactorily applied, use it for its nutrient value on pasture, crops or on a recreational area (e.g. lawns and parks). If the fertiliser has been physically degraded, dry application through normal application equipment may not be possible. Alternative spreading equipment may need to be used or the fertiliser applied by hand. Consideration will need to be given to the type and amount of contaminants. Insoluble contaminants may block filters and nozzles. Many granular phosphorus fertilisers contain insoluble impurities. They are not fully soluble. If contaminated with other materials (e.g. fuel, oil or chemicals) the fertiliser waste must be disposed of to an approved landfill site in accordance with relevant local legislation. Contact a local Waste Management Authority for advice.
<b>Container Disposal</b>	Dispose of packaging in accordance with state and local disposal regulations.

### 14. Transport information

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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### 15. Regulatory information

<b>Regulatory Information</b>	Classified as non-hazardous. Substance is subject to any prohibitions or restrictions in the country or region where it is being shipped.
<b>Poisons Schedule</b>	Not Scheduled
<b>AICS (Australia)</b>	All of the components in this product are listed on the Australian Inventory of Chemical Substances.

### 16. Other Information

**Date of preparation or last revision of SDS** June 2020

**Other Information** DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE MANUFACTURER.  
Always use product as directed. Never return any unused material to original drum.  
The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writers knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.  
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