

Infosafe No™ 5GF8A	Issue Date : May 2020	Status : ISSUED
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 Product Name **Liquid Zinc**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Liquid Zinc
<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>	For use as a fertiliser in agriculture.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Eye Damage/Irritation: Category 1 Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
<b>Precautionary statement – General</b>	Keep out of reach of children.
<b>Pictogram (s)</b>	Environment, Corrosion
	 
<b>Precautionary statement – Prevention</b>	Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Collect spillage.
<b>Precautionary statement – Disposal</b>	Dispose of contents/container to an approved waste facility.

## 3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	zinc sulphate heptahydrate	7446-20-0	30-60 %
	Other ingredients classified as non hazardous at the concentrations used according to the criteria of Safework Australia		to 100%

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## 4. First-aid measures

<b>First Aid Measures</b>	For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764 766) or a doctor.
<b>Inhalation</b>	Remove from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Seek medical advice if symptoms persist.
<b>Ingestion</b>	Rinse mouth with water. If swallowed, Do NOT induce vomiting. Give a glass of water and seek immediate medical assistance.
<b>Skin</b>	If skin or hair contact occurs, remove any contaminated clothing and wash skin and hair thoroughly with running water for at least 15 minutes. If irritation occurs seek medical attention. Wash contaminated clothing and shoes before reuse.
<b>Eye contact</b>	Immediately hold eyelids open and irrigate continuously with water for 15 minutes. Remove contact lenses if present and easy to do. Continue flushing until advised to stop by a Poisons Information Centre or a doctor. Seek medical attention.
<b>Advice to Doctor</b>	Treat symptomatically. Show this SDS to the medical practitioner.

## 5. Fire-fighting measures

<b>Fire Fighting Measures</b>	Fire fighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing if risk of exposure to products of decomposition. Keep containers cool with water spray.
<b>Suitable extinguishing media</b>	If material is involved in a fire, use the following extinguishing media: fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder). Use water carefully as material will react with water to form acidic solution. Water spray may be used to keep fire-exposed containers cool.
<b>Hazards from Combustion Products</b>	Decomposes on heating and may emit toxic fumes, including those of oxides of sulphur and oxides of zinc. Containers may explode when heated. .
<b>Specific Methods</b>	Clear fire area of all non-emergency personnel. Stay upwind. Eliminate ignition sources. If safe to do so, move undamaged containers from fire area. Keep containers cool with water spray until well after fire is extinguished. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
<b>Hazchem Code</b>	•3Z

## 6. Accidental release measures

<b>Emergency Procedures</b>	Wear protective equipment to prevent skin and eye contact. Avoid breathing in vapours. Contain run-off from fire control or dilution water. Run-off may pollute waterways. If contamination of sewers or waterways has occurred advise local emergency services.
<b>Methods and materials for containment and cleaning up</b>	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly as hazardous waste. Ventilate area and wash spill site after material pickup is complete.
<b>Spills &amp; Disposal</b>	Collect and seal in properly labelled containers for disposal. Dispose of with an authorised waste facility in accordance with statutory requirements. Transfer liquids and used absorbant material to separate suitable containers for recovery or disposal. Wash down area (if appropriate).
<b>Environmental Precautions</b>	If contamination of sewers or waterways has occurred, advise local emergency services.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid skin and eye contact and inhalation of vapours. Do not allow clothing wet with material to stay in contact with skin. When handling, do not eat, drink or smoke. Wash hands before using toilet facilities. Observe good hygiene practices. Ensure an eye bath and safety shower are available and ready for use. Containers of this material may be hazardous when empty since they retain product residues. Observe all warnings and precautions listed for
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the product.  
**Conditions for safe storage, including any incompatibilities** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks or build up of pressure. Protect against physical damage. Store away from foodstuffs.

## 8. Exposure controls/personal protection

**Occupational exposure limit values** No value assigned for this specific material by Safe Work Australia.

**Appropriate engineering controls** Use in well-ventilated areas. A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions from the contaminant at its source, preventing dispersion of it into the general work area. If inhalation risk exists; use with local exhaust ventilation or while wearing an approved respirator. Keep containers closed when not in use.

**Respiratory Protection** For conditions of use where exposure to mist is apparent, a half-face P1 respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator (AS1336/1337).

**Personal Protective Equipment** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the handling methods and environmental factors. However, the wearing of overalls, safety glasses and gloves should be considered. Use with adequate ventilation. If inhalation risk exists, wear organic vapour/ particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated and other protective equipment before storage or reuse.

## 9. Physical and chemical properties

**Form** Liquid

**Appearance** Colourless liquid

**Specific Gravity** 1.39 - 1.41

**pH** 2.5 - 3.5

## 10. Stability and reactivity

**Chemical Stability** Product considered stable under normal conditions of use, storage and temperature.

**Conditions to Avoid** Avoid contact with foodstuffs.

**Incompatible Materials** Incompatible with strong acids.

**Hazardous Decomposition Products** Zinc sulphate can decompose at high temperatures to form toxic oxides, sulphur and zinc oxide as well as water vapour. Hazardous decomposition products include oxides of sulphur and oxides of zinc.

**Hazardous Polymerization** Will not occur.

## 11. Toxicological Information

**Toxicology Information** Zinc Sulphate Heptahydrate Oral LD50 (rat): 1,260 mg/kg.

**Ingestion** Harmful if swallowed. Swallowing may result in gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Inhalation** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Skin** May cause skin irritation, redness, itching and pain.

**Eye** A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

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<b>Carcinogenicity</b>	No data supplied.
<b>Reproductive Toxicity</b>	While fertility toxicity has been observed at very high doses of zinc sulphate, the levels at which this occurs are unlikely to result from industrial use.
<b>Chronic Effects</b>	No information available.
<b>Mutagenicity</b>	Mutagenicity - non-mutagenic

## 12. Ecological information

<b>Ecotoxicity</b>	The LC50/96-hour values for fish are between 1 and 10 mg/L. Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
<b>Environmental Fate</b>	Do NOT allow product to reach waterways, drains and sewers.
<b>Bioaccumulative Potential</b>	No information available.

## 13. Disposal considerations

<b>Disposal Considerations</b>	Use up product completely. If necessary, dispose of excess product according to state and local waste disposal regulations.
<b>Special precautions for landfill or incineration</b>	Contact specialist disposal company or the local waste regulator for advice. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility.

## 14. Transport information

<b>Transport Information</b>	Class 9 Miscellaneous dangerous goods shall not be loaded in a vehicle with: - Class 1 Explosives - Class 5. 1 Oxidizing agents (when Class 9 substance capable of igniting and burning - Class 5. 2 Organic peroxides (when Cl. 9 capable of igniting/burnin
<b>U.N. Number</b>	3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (CONTAINS ZINC SULPHATE)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	•3Z
<b>Packing Group</b>	III
<b>EPG Number</b>	9C1
<b>IERG Number</b>	47
<b>Other Information</b>	UN3082: Not regulated as DG when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L) or IBCs

## 15. Regulatory information

<b>Poisons Schedule</b>	S6
<b>AICS (Australia)</b>	All ingredients are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	15 May 2020
<b>Other Information</b>	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



# Safety Data Sheet

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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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