

KICKSTART Bio 25

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name	Kickstart Bio 25
Product Type	Liquid Fertiliser
Product Use	Fertiliser. Directions detailed on product label
Company Name	Agrobest Australia Pty Ltd
Address	9 Palings Court, NERANG QLD 4211
Emergency Tel.	0419 758 458
Telephone	(07) 55 960 622
Fax Number	(07) 55 960 616
Poisons Information Centre	13 11 26

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture



Corrosion

H314 - Causes severe skin burns and eye damage. Skin Corrosion/Irritation - Danger - Hazard Category 1A

GHS Label Elements Including Precautionary Statements

Prevention:

Do not breathe vapours.

Wash hands and eyes thoroughly after handling.

Wear protective gloves/protective clothing, eye protection/face protection.

Response:

If swallowed rinse mouth. Do not induce vomiting.

If on skin (or hair) remove immediately all contaminated clothing. Rinse skin with water.

Wash contaminated clothing before reuse.

If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a Poison Information Center or doctor.

If in eyes rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Storage:

Store locked up.

Disposal:

Dispose of contents/container according to applicable local and state government regulations.

Other hazards which do not result in classification:

No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation Liquid

	<u>NAME</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
	Urea	57-13-6	10-30%
	Zinc sulphate heptahydrate	7496-20-0	10-30%
	Phosphoric acid	7664-38-2	10-30%
	Potassium hydroxide	1310-58-3	<10%
	Sulfuric acid, magnesium salt (1:1), monohydrate	14168-73-1	<20%
Ingredients	Ferrous sulphate Monohydrate	13463-43-9	<10%
	Boric acid	10043-35-3	<10%
	Molybdic acid (H ₂ MoO ₄), disodium salt	7631-95-0	<5%
	Sulfuric acid, copper(2+) salt (1:1)(copper sulfate)	7758-98-7	<10%
	Sulfuric acid, cobalt(2+) salt (1:1), heptahydrate	10026-24-1	<5%
	Other ingredients (considered non-hazardous)	n/a	Balance to 100%

4. FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
Ingestion	Wash mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin	In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.
Eyes	In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms occur.
Advise to Doctor	Treat symptomatically, no specific antidote

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use fire extinguishing media suitable to surrounding fire conditions. Spray water, foam or carbon dioxide
Hazardous Combustion Product	If involved in a fire, not combustible, but may support combustion of other materials. Some gases may be released.
Special Protective Equipment and Precautions for Fire Fighter	Wear SWA approved self-contained breathing apparatus and full protective clothing.
Unusual fire or explosion Hazards	Product does not present an explosion hazard
Explosion Hazards Hazchem Codes	Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Wear SWA approved self-contained breathing apparatus and full protective clothing. For further details refer to section 8
Environmental Precautions	In the event of a major spill, prevent spillage from entering drains or water courses. Spills to soil or similar surface may necessitate removal of top soil. The affected area should be placed in appropriate container for disposal
Methods and Materials for Containment and Cleaning Up	Slippery when spilt. Clean up all spills immediately. Stop leak if safe to do so and absorb spill onto sand, earth, vermiculite or some other inert absorbent material. Collect the spilled material and place into a suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for safe Handling	Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapors. Ensure adequate ventilation. 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
Conditions for Safe Storage	Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Keep away from incompatible materials, organics or ammonia. Do not store with seed, chemicals or foodstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	<p>Phosphoric acid: TWA: - ppm / 1 mg/m³ STEL: - ppm / 3 mg/m³</p> <p>Potassium hydroxide: TWA: - ppm / 2 mg/m³ Peak limitation STEL: - ppm / - mg/m³</p>
Engineering Controls	This product should be used in a well ventilated area. Avoid breathing in vapours. If natural Ventilation is not sufficient the use of a fan is recommended. Keep containers closed when not in use
Personal Protective Equipment (PPE)	
Respiratory Protection	In case of intensive or longer exposure use self-contained respiratory protective device. See Australian Standards AS/NZS 1715 and 1716 for more information
Eye/Face Protection	Safety glasses with top and side shields. See Australian Standards AS/NZS 1336 and 1337 for more information.
Skin Protection	Protective PVC gloves, protective overall, waterproof apron and safety boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
Requirements Concerning Special Training	Refer to your State or Territory legislation for required training guidelines

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Chocolate brown
Odour	None noted
Melting Point	N/A
Boiling Point	> 105 °c
Solubility in Water	Yes
Specific Gravity	1.18
pH	1.5 - 2.5
Vapour Pressure (20°C)	As water
Volatile component	Volatility 6% max at 363 F. Stable in the presence of light and moisture
Flammability	Non combustible

10. STABILITY AND REACTIVITY

Chemical Stability	Stable at ambient temperature and under normal conditions of use.
Incompatible Materials	Avoid contact with strong bases, strong acids, strong oxidising agents.
Conditions to avoid	Excessive heat

11. TOXICOLOGICAL INFORMATION

<p>Toxicology Information</p>	<p>Phosphoric acid: Oral LD₅₀ (rat) = 1530 mg/kg Dermal LD₅₀ (rabbit) = 2740 mg/kg Inhalation LC₅₀ (rat) = 850 mg/m³ – 1 hour Draize test, rabbit, eye = 119 mg - Severe Draize test, rabbit, skin = 595 mg/24hour - Severe Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Harmful if ingested. Causes irritation and burns of the gastrointestinal tract. Inflammation of the eye is characterized by redness, watering, and itching. Skin contact may produce burns. The substance may be toxic to blood, liver, skin, eyes, bone marrow. Repeated or prolonged exposure to the substance can produce target organs damage.</p> <p>Potassium hydroxide: Oral LD₅₀ (rat) = 273 mg/kg Draize test, rabbit, skin = 50 mg/24hour - Severe Causes severe eye and skin burns. May cause irreversible eye injury. Harmful if swallowed. May cause circulatory system failure and severe digestive tract burns with abdominal pain, vomiting, and possible death. Harmful if inhaled. Irritation may lead to chemical pneumonitis and pulmonary oedema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma.</p> <p>Zinc sulphate heptahydrate: Oral LD₅₀ (rat) > 574 mg/kg Dermal LD₅₀ (rat) > 2000 mg/kg Ingestion can cause irritation or corrosion of the alimentary tract. Contact with eyes or skin causes irritation. Target Organs: Skin, eyes, respiratory system and lungs</p> <p>Urea: Oral LD₅₀ (rat) = 8471 mg/kg Oral LD₅₀ (mouse) = 11000 mg/kg Hazardous in case of skin and eye contact (irritant), ingestion, and inhalation. The substance may be toxic to blood and cardiovascular system. Repeated or prolonged exposure to the substance can produce target organs damage</p>
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Inhalation	Breathing in mist or vapours may result in respiratory irritation. Side effects of inhalation of spray mists can include nausea, headaches, pain and gastrointestinal irritation
Ingestion	Ingestion is not a likely form of exposure. If however swallowing does occur, symptoms such as nausea, vomiting, pain and gastrointestinal irritation and diarrhoea may occur.
Skin	Irritation may result from prolonged and repeated exposure or contact with the concentrate.

12. ECOLOGICAL INFORMATION

Do not let this product enter drains, water bodies and sewerage systems. This product may be toxic to aquatic life. Undergoes ionic dissociation. This product contains phosphorus which should be excluded from surface and ground water.

13. DISPOSAL CONSIDERATIONS

Product Disposal	This product should be used for its intended purpose. Contact local authorities who hold collections of unwanted chemicals (ChemClear® 1800008182) if disposal of this product is required. On site disposal of the concentrated product is not acceptable.
Container Disposal	Do not reuse this container for any purpose. Instructions outlining the disposal of the product container are given on the label. These should be carefully followed. Additional assistance is available from drumMUSTER (http://www.drummuster.com.au). DrumMUSTER is the national program for the collection and recycling of crop production and on-farm animal health chemical containers. View their website to find contact details for your area. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Transport Information	It is recommended not to transport agricultural chemicals with foods, food related products and animal feed.
Storage and Transport	This product is not classed as a dangerous good for transport by the Australian Dangerous Goods Code (ADG Code) for the transport of dangerous goods by road or rail.
IMDG UN Number	This product is not classed as a Dangerous Good for transport by the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

15. REGULATORY INFORMATION

Classification	Not classified as hazardous according to criteria of GHS
Poison Schedule	Urea, zinc sulphate heptahydrate, phosphoric acid, potassium hydroxide, sulfuric acid, magnesium salt (1:1), monohydrate, boric acid, molybdic acid (H ₂ MoO ₄), disodium salt, sulfuric acid, copper(2+) salt (1:1)(copper sulfate) and sulfuric acid, cobalt(2+) salt (1:1), heptahydrate are listed in the Australian Inventory of Chemical Substances (AICS).
	Poisons Schedule: 6
Hazard Category	None allocated
AICS (AUST)	All of the components in this product are listed on the Australian Inventory of Chemical Substances

16. OTHER INFORMATION

Last revision of MSDS

Rev1.1 27/06/2022

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ADG Code : Australian Dangerous Goods Code for the Transport of dangerous Goods by Road and Rail

IMDG Code :International Maritime Dangerous Goods Code for transport by sea.

SWA: Safe work Australia. Formerly ASCC and NOHSC

AICS : Australian Inventory of Chemical Substances

Emergency Contacts

Agrobest Australia Pty Ltd: (07) 55 960 622

Agrobest Australia Pty Ltd - Emergency : 0419 758 458

Police and Fire Brigade : 000

Poison information Centre : 13 11 26

This MSDS Contains only safety-related information. For other data see product information

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Please read all labels carefully before using the product.