



**Hi-K + AA**

**1. IDENTIFICATION OF MATERIAL AND SUPPLIER**

<b>Product Name</b>	Hi-K + AA
<b>Product Type</b>	Liquid Fertiliser
<b>Product Use</b>	Liquid Fertiliser. Directions detailed on product label
<b>Company Name</b>	Turfcare Australia
<b>Address</b>	38 Stephen Road, Dandenong Vic 3175
<b>Emergency Tel.</b>	<b>0419 758 458</b>
<b>Telephone</b>	(03) 9708 2911
<b>Fax Number</b>	(03) 9708 2922
<b>Poisons Information Centre</b>	13 11 26


**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**  
**CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS**

**GHS classification(s)** Serious Eye Damage / Eye Irritation: Category 2A

**2.2 Label elements**

**Signal word** **WARNING**

**Pictogram(s)**  


**Hazard statement(s)**

H319 Causes serious eye irritation.

**Prevention statement(s)**

P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response statement(s)**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

**Storage statement(s)**

None allocated.

**Disposal statement(s)**

None allocated.

**2.3 Other hazards**

No information provided.



## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation      Liquid

	<u>NAME</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
Ingredients	Potassium Carbonate	584-08-7	30 - 40%
	Urea	57-13-6	20 - 30%
	Ferric DTPA Chelate	15275-07-7	2 - 5%
	Other ingredients (considered non-hazardous)	n/a	Balance to 100%

## 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove victim from area of exposure to fresh air. If effects persist seek medical advice. Symptoms may include nausea, headache, pain and gastrointestinal irritation.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth with water. If swallowed, give large quantities of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention if effects persist.
<b>Skin</b>	In case of skin contact, immediately remove contaminated clothing and wash affected area with water and soap. Seek medical attention if symptoms occur
<b>Eyes</b>	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
<b>Advise to Doctor</b>	Treat symptomatically, no specific antidote

## 5. FIRE FIGHTING MEASURES

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

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Wear SWA approved self-contained breathing apparatus and full protective clothing. For further details refer to section 8
<b>Environmental Precautions</b>	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
<b>Methods and Materials for Containment and Cleaning Up</b>	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

<b>Precautions for safe Handling</b>	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
<b>Conditions for Safe Storage</b>	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

<b>National Exposure Standards</b>	No exposure standard for this product has been set however the following is recommended. TWA 10 mg/m <sup>3</sup>
<b>Engineering Controls</b>	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
<b>Personal Protective Equipment (PPE)</b>	
<b>Respiratory Protection</b>	In case of intensive or longer exposure use self-contained respiratory protective device. See Australian Standards AS/NZS 1715 and 1716 for more information
<b>Eye/Face Protection</b>	Safety glasses with top and side shields. See Australian Standards AS/NZS 1336 and 1337 for more information.
<b>Skin Protection</b>	Protective PVC gloves, protective overall, waterproof apron and safety boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information
<b>Hygiene Measures</b>	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.
<b>Requirements Concerning Special Training</b>	Refer to your State or Territory legislation for required training guidelines

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid
<b>Appearance</b>	Dark Reddish Brown
<b>Odour</b>	Odourless
<b>Melting Point</b>	No Data
<b>Boiling Point</b>	>100°C
<b>Solubility in Water</b>	Yes
<b>Specific Gravity</b>	1.30 - 1.34
<b>pH</b>	11.8 - 12.4
<b>Vapour Pressure (20°C)</b>	As water
<b>Flammability</b>	Non combustible

## 10. STABILITY AND REACTIVITY

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



## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	Low Toxicity
<b>Inhalation</b>	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
<b>Ingestion</b>	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.
<b>Skin</b>	Irritation may result from prolonged and repeated exposure or contact with the concentrate.
<b>Acute Toxicity - Oral</b>	Calculated Rat Oral LD50 < 70,000mg/kg
<b>Acute Toxicity - Dermal</b>	Calculated Rabbit Dermal LD50 > 40,000mg/kg
<b>Acute Toxicity - Inhalation</b>	No LD50 data available

## 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

<b>Product Disposal</b>	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.
<b>Container Disposal</b>	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 ( <a href="http://www.drummuster.com.au">http://www.drummuster.com.au</a> ). 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

<b>Transport Information</b>	It is recommended not to transport agricultural chemicals with foods, food related products and animal feed.
<b>Storage and Transport</b>	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.
<b>IMDG UN Number</b>	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

<b>Classification</b>	Not classified as hazardous according to criteria of GHS
<b>Poison Schedule</b>	None allocated
<b>Hazard Category</b>	None allocated
<b>AICS (AUST)</b>	All of the components in this product are listed on the Australian Inventory of Chemical Substances



## 16. OTHER INFORMATION

**Last revision of MSDS**

Rev1.0 11/11/2021

**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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