

Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND MANUFACTURER

Product Name: High K™
Intended Use: Liquid Fertiliser
Details of Company: Advanced Nutrients Pty Ltd
13 Hinkler Court
Brendale. QLD. 4500
Ph: 07 3448 0051
Email: service@advancednutrients.com.au
Emergency Contact: +61 427 908 329

2. HAZARDS IDENTIFICATION

SWA Classification: NOT hazardous goods according to the criteria of SAFE WORK AUSTRALIA under Model WHS Regulations.
Dangerous Goods: NOT dangerous goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
GHS Classification: NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS). No signal word, pictograms, hazard or precautionary statements have been allocated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name:	CAS	%
Potassium Carbonate	584-08-7	60-80%
Other ingredients (considered non-hazardous)	Balance to 100%	

4. FIRST AID MEASURES

SWALLOWED: Drink plenty of water. Do not induce vomiting. Seek medical advice
EYE: Rinse with plenty of water for 15 minutes. Seek medical advice
SKIN: Rinse with plenty of water for 15 minutes. Seek medical advice
INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice
ADVICE TO DOCTOR: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABILITY: Non combustible.
EXTINGUISHING MEDIA: Use extinguishing media suitable for surrounding fire.
FIRE / EXPLOSION HAZARD: This is not a flammable material. If heated, a pressure increase may occur and the container may burst. Some gases such as, nitrogen oxide, ammonia or phosphorous oxides may be released. In smoke or fumes wear self-contained breathing apparatus. Advise fire brigade of any hazard. Suitable for most extinguishing media.
Product does not represent an explosion hazard.
HAZCHEM Code: None allocated

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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	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
CONTAINMENT AND CLEANING	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

VENTILATION:	Ensure ventilation is adequate to maintain air concentrations below exposure standards and as low as is reasonably practicable. While good natural ventilation may be adequate in most cases, local exhaust ventilation may be required.
PERSONAL PROTECTION:	Protective equipment must be worn: PVC gloves, waterproof apron, safety boots and a full-face shield. Avoid breathing dust or vapours.
FLAMMABILITY:	The product poses no flammability hazard.
STORAGE AND TRANSPORT:	This is a non-dangerous good. Store away from combustible materials, food, herbicides & fungicides. Store in well-sealed container in cool dry place.
OTHER INFORMATION:	Avoid contact with strong bases, strong oxidising agents (may decompose) and metals.

KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS: No exposure standard for this product has been set.	
VENTILATION:	Ensure ventilation is adequate to maintain air concentrations below exposure standards and as low as is reasonably practicable. While good natural ventilation may be adequate in most cases, local exhaust ventilation may be required.
PERSONAL PROTECTION:	Protective equipment must be worn: PVC gloves, waterproof apron, safety boots and splash goggles. Avoid breathing dust or vapours. Masks must be properly fitted and comply with Australian Standards AS/NZS 1715;1716 "Selection, use and maintenance of respiratory protective devices."
WORK HYGIENE	Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove contaminated clothing and protective equipment before entering eating areas. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:	Brown liquid
SPECIFIC GRAVITY / BULK DENSITY:	1.5
pH (NEAT):	13.0
SOLUBILITY IN WATER:	100%
ODOUR:	odourless
BOILING POINT:	>100°C
VAPOUR PRESSURE:	as water
PERCENT VOLATILES:	nonvolatile
FLASH POINT:	noncombustible
FLAMMABILITY LIMITS:	noncombustible
AUTOIGNITION TEMPERATURE:	noncombustible
SHELF LIFE:	2 years

10. STABILITY AND REACTIVITY

REACTIVITY:	Strong acids may decompose
STABILITY:	Stable at ambient temperature and under normal conditions of use.
MATERIALS TO AVOIDS:	Avoid contact with strong bases, strong oxidising agents as product may decompose.
HAZARDOUS DECOMPOSITION:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Fire or heat may produce irritating, toxic and/or corrosive fumes, including ammonia, nitrogen oxides and phosphorus oxides

11. TOXICOLOGICAL INFORMATION

This product is generally considered to be of low toxicity. Use safe work practices.

SWALLOWED:	Ingestion may cause diarrhea, nausea, vomiting and cramps. Irritation to mouth and throat.
EYE:	An irritant to eyes.
SKIN:	Irritation may result from prolonged and repeated exposure or contact with the concentrate.
INHALED:	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
ACUTE TOXICITY – ORAL:	Calculated Rat Oral LD50 >70,000mg/kg
ACUTE TOXICITY – DERMAL:	Calculated Rabbit Dermal LD50 >40,000mg/kg
ACUTE TOXICITY – INHALATION:	No data available

12. ECOLOGICAL INFORMATION

TOXICITY	Low acute ecotoxicity
PERSISTENCE	readily biodegradable
BIOACCUMULATIVE	No information provided
MOBILITY	Contains ammonium and orthophosphate. Ammonium is more stable in soil though may transform to highly mobile nitrate. Phosphate is sorbed to soil colloids and has low mobility. Soil phosphate is mainly lost to environment via erosion.
ADVERSE EFFECTS	Avoid contaminating waterways. Fertilisers, particularly those containing nitrogen and/or phosphorus, can stimulate weed and algal growth in static surface waters. Nitrogen fertilisers may contain or form nitrate which can contaminate surface or ground water. High nitrate concentrations may

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render the water unsuitable for human consumption and livestock consumption.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: Rinse packaging thoroughly and add to spray tank. Recycle bulk containers. Beneficial reuse is the most preferred option of disposal for degraded or non-harmful contaminated fertilisers. Fertilizers contaminated with harmful substances (chemicals, hydrocarbons, etc.) must be disposed in accordance with advice from the relevant Waste Management Authority.

ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

14. TRANSPORT INFORMATION

TRANSPORT: This product is not classed as a hazardous or dangerous good for transport by the ADG Code, IMDG Code, IATA.

STORAGE & TRANSPORT: It is recommended not to transport agricultural chemicals with foods, food related products and animal feed. Store undercover at >4°C - <50°C

UN NUMBER: N/A

D.G. CLASS: N/A

SUBSIDIARY RISK: NONE

HAZCHEM CODE: N/A

PACKAGING GROUP: N/A

POISONS SCHEDULE: N/A

15. REGULATORY INFORMATION

Classifications: Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

Inventory Listings: AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals). All components are listed on AIIC, or are exempt.

16. OTHER INFORMATION

SDS Creation Date: 18/09/2024 Issue Number: v7.1

Customer Service: 1800 244 099 (This Issue Number replaces all previous issues)

Australian Poisons Info Centre: 13 11 26

Abbreviations

ADG Australian Code for the Transport of Dangerous Goods by Road & Rail

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

EC No. European Community Number

GHS Globally Harmonized System

IATA International Air Transport Association

IMDG International Maritime Dangerous Goods Code

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

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ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)

STOT-SE Specific target organ toxicity (single exposure)

SWA Safe Work Australia

The product should not be used for purposes other than shown in Section 1 without first referring to the supplier and obtaining written instructions. As specific conditions of use of the product are outside of the suppliers' control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with. The information in this Safety Data Sheet is based on the present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as a guarantee of technical performance or suitability for particular applications. This SDS will be revised and updated as requirements occur. Should further information and relevant advice be required, contact Advanced Nutrients Pty Ltd.