



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name DYNAMO HIGH-K LIQUID FERTILISER

Other Names Liquid fertiliser, Fluid fertiliser, Solution fertiliser

UsesLiquid fertiliserChemical FamilyNo Data AvailableChemical FormulaNo Data AvailableChemical NameNo Data AvailableProduct DescriptionNo Data Available

Contact Information Australia Location Telephone Ask For

Rural Liquid Fertilisers Pty Ltd 61 Dowd Street +61 1800 753 000 Technical Officer

Welshpool WA 6106

2. HAZARDS IDENTIFICATION

ADG Code Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG

Code). Goods are IATA Non-Dangerous.

Hazardous Substance Dynamo High-K Liquid Fertiliser is not classified as hazardous according to Safe Work

Australia criteria.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS ELEMENTS

Nitrogen (N)

Phosphorus (P₂O₂)

Potassium (K,0)

Zinc (Zn)

Manganese (Mn)

Copper (Cu)

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure:

Swallowed If person is conscious, rinse mouth thoroughly with water immediately and give water or milk to

drink. DO NOT induce vomiting. Seek medical assistance, if more than a small quantity has been

swallowed, or if there is pain, or difficulty with swallowing.

Eyes Flush gently with running water for at least 15 minutes lifting lower and upper eyelids

occasionally. Seek medical attention if irritation develops.













Skin Gently flush affected areas with water. Seek medical attention if irritation develops. Remove all

contaminated clothing and launder before re-use.

Inhaled Handling If over exposure occurs remove affected person to a well ventilated area. Keep warm and at rest.

In emergency situations, if breathing is difficult give oxygen. If the affected person suffers cardiac arrest commence cardio-pulmonary resuscitation immediately. Seek urgent

medical attention.

Advice to Doctor This product contains nitrates, which may be reduced to nitrites by intestinal bacteria. Nitrites

may affect the blood (methaemoglobinaemia) and blood vessels (vasodilating and a fall in blood pressure). Effects peak within 30 minutes. Clinical signs of cyanosis appear before other symptoms because of the dark pigmentation of methaemoglobin. Institute cardiac monitoring,

especially in patients with coronary, artery, or pulmonary disease.

5. FIRE FIGHTING MEASURES

Flammability Conditions Non flammable and does not support combustion.

Extinguishing Media Extinguish fires with a large amount of water.

Personal Protective Equipment
No Data Available
Flash Point
No Data Available
Lower Explosion Limit
No Data Available
Upper Explosion Limit
No Data Available
Auto Ignition Temperature
No Data Available
Hazchem Code
No Data Available

6. ACCIDENTAL RELEASE MEASURES

Containment and Clean Up

Any spillage should be contained promptly with sand, earth or vermiculite. Recover contained

product and recycle. Absorb remaining product in sand, earth or vermiculite. Wash down area

and prevent run-off into drains, sewers, or waterways.

7. HANDLING AND STORAGE

Handling Keep away from copper, zinc, or their alloys, aluminum, or its alloys, mild steel, or concrete

when transporting.

Storage Store in a dedicated clean tank. Avoid contamination with any chemical. Avoid evaporation of

water from the liquid fertiliser. Store away from incompatible materials, which include strong

acids, hypochlorites, bleach, pool chlorine, or chlorine based cleaning products.

8. EXPOSURE CONTROLS / PROTECTION

Exposure Limits No exposure standards allocated.

Personal Protective Equipment Wear rubber or PVC gloves to prevent skin contact. Where mist is a problem use a P2 type

canister Respirator. Wear PVC jacket and pants to prevent contact. Wear chemical safety glasses

to prevent eye contact.

Engineering ControlsUse in well ventilated areas. Avoid high mist concentration.













9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid
Appearance Liquid

Odour Slight Pungent Odour

Colour Blue pH of 5% solution Basic

Vapour Pressure Does not exert significant vapour pressure.

Relative Vapour DensityNo Data AvailableBoiling/Melting PointNo Data AvailableFreezing PointNo Data AvailableEvaporation RateNo Data Available

Solubility Miscible in all proportions with water.

Specific GravityExtremely HighVolatile PercentNo Data AvailableFlammabilityNot Flammable

Flash Point Not relevant, does not give off flammable vapours.

Auto Ignition Temp No Data Available

10. STABILITY AND REACTIVITY

Reactivity Dynamo High-K Liquid Fertiliser is not compatible with copper, zinc, or their alloys (i.e. bronze,

brass, galvanised metals, etc.), aluminum, mild steel and concrete. Do not use the above materials of construction in handling systems, or storage containers for **Dynamo High-K**

Liquid Fertiliser.

11. TOXICOLOGICAL INFORMATION

General Information Dynamo High-K Liquid Fertiliser has low toxicity. Use safe work practices to avoid eye or skin

contact and mist inhalation. Prolonged or repeated exposure may cause drying of the skin with

cracking and irritation that may lead to dermatitis.

Target Organs Respiratory system, eyes and skin. Routes of Entry Ingestion or Inhalation.

Eye Irritant May cause irritation, redness and pain following contact.

Ingestion Presents moderate toxicity, unless large amounts are ingested. Large amounts give rise to

gastro-intestinal irritation, with symptoms such as nausea, vomiting and diarrhoea. Large amounts may also cause dilation of blood vessels by direct smooth muscle relaxation and methaemoglobinaemia (excessive conversion of haemoglobin to methaemoglobin, which is incapable of binding and carrying oxygen - methaemoglobin is formed when iron in the haem molecule is oxidised from the ferrous to the ferric state). Symptoms include dizziness, abdominal

pain, vomiting, bloody diarrhoea, weakness convulsions and collapse.

Inhalation High mist concentration of air-borne material may cause irritation to the nose and upper

respiratory tract. Symptoms may include coughing and sore throat. Prolonged exposure may

be harmful.

Skin Irritant Prolonged contact may cause some irritation, including redness and itching. No harmful effects

from skin contact have been reported.

12. ECOLOGICAL INFORMATION

Environment It is not anticipated to cause any adverse effects to plants or animals.













DISPOSAL CONSIDERATIONS

Disposal Methods and Containers Dispose of on a farm, or authorised waste facility in accordance with statutory requirements.

Contact the manufacturer if additional information is required.

Legislation Dispose of in accordance with relevant local legislation.

TRANSPORT INFORMATION 14.

ADG Code Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG

Code). Goods are IATA Non-Dangerous.

15. REGULATORY INFORMATION

Poisons Schedule N/A **EPG** N/A **AICS Name** N/A **NZ Toxic Substance** N/A **HSNO Hazard Classification** N/A **ERMA Approval Code** N/A

16. **OTHER INFORMATION**

Key Legend NOHSC National Occupational Health and Safety Commission

> SUSDP Standard for the Uniform Scheduling of Drugs and Poisons **ACGIH** American Conference of Government Industrial Hygienists

ES-TWA Exposure Standard - Time weighted average **ES-STEL** Exposure Standard - Short term exposure level

ES-Peak Exposure Standard - Peak level

LD Lo The lowest dose in an animal study in which lethality occurred

LD 50 LD50 Lethal dose 50. The single dose of a substance that causes the death of 50%

of an animal population from exposure to the substance by any route other

than inhalation

TD Lo The lowest dose of a substance known to have produced signs of toxicity

TC Lo Lowest published toxic concentration LC Lo Lowest published lethal concentration

Lethal concentration that kills 50% of an animal population within a specified time LC 50

t/m³ Tonnes per cubic metre mg/m³ Milligrams per cubic metre mg/kg Milligrams per kilogram

g/L Grams per litre

%w/v weight per volume percentage %w/w weight per weight percentage

SG Specific Gravity

pН relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14,

where 0 is highly acidic and 14 is highly alkaline













Disclaimer

This document has been prepared by Rural Liquid Fertilisers (RLF), and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

While RLF has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RLF accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

As the use of the products described in this document is outside the control of RLF, we make no representation or warranty concerning the suitability or fitness of this product for any purpose. It is your sole responsibility to ensure that the product will have the qualities and attributes that will make them fit for and ordinary or special purpose required of them, even if that purpose is made known to us at any time. This includes responsibility on your part to conduct in a timely manner all appropriate tests and quality checks on the product and any goods made from them. We disclaim any liability if any products are not suitable or fit for any such purpose.

Revision: 1

SDS Date: 16 October 2017

End of SDS







