



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: LIQUITEC NPK
Chemical Name: N/A
Approved Use: Fertiliser
Supplier: NUTRIAN Pty Ltd
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2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	Mono Ammonium Phosphate
2.	Potassium Nitrate

No.	EINECS / CAS No.	R Phrases	Concentration	Classification
1.	Unknown	--	N/A	--
2.	231-818-8	R7	N/A	--



3. HAZARDS IDENTIFICATION

Irritant

4. FIRST-AID MEASURES

General:	In case of serious personal contamination always seek medical help immediately.
Inhalation:	If large concentrations of spray mist are inhaled remove to fresh air and keep warm. If symptoms persist seek medical attention.
Skin Contact:	Contact with the skin may cause mild irritation especially to damaged skin and wounds. If symptoms persist seek medical aid. Wash immediately with soap and rinse with copious amounts of water.
Eye Contact:	Contact with eyes may cause irritation. If symptoms persist seek medical assistance. Irrigate holding the eyelids open with copious amounts of eyewash or clean water for 15 minutes minimum. Seek medical attention.
Ingestion:	May cause systemic damage and gastro-intestinal irritation including nausea, vomiting, diarrhoea, cramps, cyanosis, convulsions, pulmonary oedema, liver damage, hypotension and renal failure. May lead to coma and death. DO NOT INDUCE VOMITING. Give copious amounts of water/milk to drink. If vomiting occurs place patient in the recovery position. Seek immediate medical assistance.
Medical Information:	For specialist advice doctors should contact the nearest Poisons Information Centre.



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	This product is not classified combustible or flammable. All extinguishing agents can be used.
Unsuitable Extinguishing Media:	None known.
Special Exposure Hazards:	Aqueous liquid. Does not present any combustion risk in the event of a fire. Heat from fire may result in the release oxides of nitrogen, sulphur, ammonia gaseous fumes.
Protective Equipment:	Isolate the area. Full protective clothing and boots, a respiratory protective device, with combined gas and particle filter, appropriate gloves and safety glasses / face shield should be worn.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin and eyes. Avoid unnecessary contact with product. Ensure adequate ventilation of the working area. Remove all contaminated clothing. Wash hands and face before eating, drinking or smoking.
Environmental Precautions:	Rinse empty containers with water and add to mix. Do not discharge into drains or watercourses. Dispose of containers at a suitable site.
Methods for Cleaning Up:	Small spillage: Absorb and contain spillage with sand or earth. Do not contaminate drains. Large spillage: Evacuate area. Absorb and contain spillage with sand or earth. Place waste in sealed containers. Contact Local Authority for controlled waste disposal. Notify Water Authority if large spillage enters drains or sewers.



7. HANDLING AND STORAGE

Handling:

Handle and use in accordance with good occupational hygiene and safety practice. Avoid skin and eye contact. Wear full overall protective clothing, PVC or rubber gloves and boots. Use in natural ventilation. If exposed to high vapour concentration in a confined area, wear self contained breathing apparatus.

Storage:

Keep sealed in original containers. Store in frost-free, dry conditions out of direct sunlight above 5°C and below 30°C. Store away from combustible materials, herbicides, fungicides and human and animal consumables.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautions:

Wash hands before meals and after work.
Ensure adequate ventilation of the working area.
Avoid breathing mist when spraying.
Store in original container, tightly closed in a safe frost-free place out of direct sunlight. Store away from children, pets, livestock and foodstuffs.

Protective Clothing:

Wear full protective overall clothing.
Wear chemical resistant PVC or rubber gloves and boots.

Wear approved safety face shield or goggles.
No personal respiratory equipment is indicated during the handling of this product.

Occupational Exposure Limits:

Not specified.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black liquid
Odour:	None
pH:	7.5 - 8 (10% solution)
Boiling Point/Boiling Range:	Approximately 100°C
Melting Point/Melting Range:	Not applicable.
Flash Point:	Non-Flammable
Flammability:	Non-Flammable
Autoflammability:	Non-Flammable
Explosive Properties:	Non-Explosive
Oxidizing Properties:	Non-Oxidising
Vapour Pressure:	No Information
Relative Density:	1.35 g/cm ³ at 20°C
Solubility (water and fat):	Miscible in water in all proportions. Soluble in common organic solvents.

10. STABILITY AND REACTIVITY

Conditions to Avoid:	Hazardous reactions are unlikely to occur under normal conditions of storage and use. On available data, this is not a dangerous product. However, all precaution should be taken when using fertilisers.
Materials to Avoid:	Avoid undiluted contact with strong bases - may release ammonia, strong oxidising agents - may oxidise metals - slightly corrosive.
Hazardous Decomposition Products:	No hazardous decomposition products are expected.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not known.
Irritation:	Irritant.
Sensitization:	Non-Sensitizer.



12. ECOLOGICAL INFORMATION

Mobility:	Ultimate destination is the soil.
Degradability:	Readily biodegradable in soil
Accumulation:	Bio-accumulation unlikely

13. DISPOSAL CONSIDERATIONS

Product and Waste:	Flush small quantities to drain with copious amounts of water. Large quantities require controlled waste disposal in accordance with all local and national regulations.
Containers:	Do not re-use packaging for any other purpose. Dispose of used packaging in accordance all local and national regulations.

14. TRANSPORT INFORMATION

Special Transport Precautions:	Non-Hazardous
Road/Rail Classification:	Not Restricted
IMDG Classification:	Not Restricted
Air Classification:	Not Restricted



15. REGULATORY INFORMATION

R-PHRASES	-	R37	Irritating to the respiratory system
		R38	Irritating to skin
S-PHRASES	-	S2	Keep out of reach of children
		S7	Keep container tightly closed
		S13	Keep away from food, drink and animal feeding stuffs
		S20/21	When using do not eat, drink or smoke
		S23	Do not breathe gas/fumes/vapour/spray
		S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
	S51	Use only in well ventilated areas	
	S56	Do not discharge into drains or the environment. Dispose to an authorised waste collection point.	

16. OTHER INFORMATION

AUSTRALIAN POISONS INFORMATION CENTRE 13 11 26

Revision No. 1

Date: 09/07/2013

DISCLAIMER

The information in the MSDS relates to this specific material and is supplied only as a guide for the safe use, storage and handling of the product. This information relates only to the specific material designated and may not be valid if the product is used in combination with any other product or material, or as a part of any other process. The information contained is correct to the best of our knowledge and belief at the date of publication. However, no guarantee is made as to its accuracy and the information is provided without any warranty, expressed or implied, regarding its correctness.

This Material Safety Data Sheet was prepared according to Directive 93/112/EEC.