

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name NOVA NPK 11-3-33+TE (OF)
Other Names No Data Available
Uses Fertiliser for fertigation.
Chemical Family No Data Available
Chemical Formula Unspecified
Chemical Name Nova Npk 11-3-33+Te (Of)
Product Description No Data Available

Contact Information	Australia	Location	Telephone	Ask For
	Rural Liquid Fertilisers Pty Ltd	61 Dowd Street Welshpool WA 6106	+61 1800 753 000	Technical Officer

2. HAZARDS IDENTIFICATION

ADG Code Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).
ASCC Hazardous Classification NOT Hazardous according to the criteria of ASCC [NOHSC:1008(2004)]
Categories
Risk Phrases
Safety Phrases
HSNO Hazard Classification
Poisons Schedule (Aust) No Data Available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Potassium Chloride	No Data Available	7447-40-7	<65.0 %
Urea	No Data Available	57-13-6	<25.0 %
Mono Ammonium Phosphate	No Data Available	7722-76-1	<15.0 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure:

Swallowed	Immediately rinse mouth with water. Give water to drink provided person is conscious. Do NOT induce vomiting. Seek immediate medical attention.
Eyes	Immediately flush eyes with water for at least 20 minutes, while holding eyelids open. Seek immediate medical attention.
Skin	Remove contaminated clothing. Wash affected area with soap and water for at least 15 minutes. Seek medical attention. Wash clothing before reuse.
Inhaled	Remove victim from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.
Medical Conditions Aggravated by Exposure	No information available on medical conditions which are aggravated from exposure to this product.

5. FIRE FIGHTING MEASURES

Flammability Conditions	Product is a non-flammable solid.
Extinguishing Media	In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.
Hazardous Products of Combustion	Non-combustible solid. Avoid generating dust. Incompatible with oxidizing agents, acids, bases, combustibles, moisture and all sources of ignition. When involved in a fire, this product may emit toxic fumes of nitrogen oxides, phosphorous oxides, carbon oxides, ammonia, potassium oxide, and chlorine oxides.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.
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

General Response Procedure	Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.
Clean Up Procedures	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly as hazardous waste. Do NOT allow mixing with sawdust or other combustible or organic substances.

7. HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Avoid contamination by combustibles (eg, diesel oil, grease) and incompatible materials. Avoid moisture pickup during handling.
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including oxidising agents, acids, bases, combustibles, moisture and all sources of ignition. Protect from direct sunlight, high humidity, heat, sparks, flame, fire or any other ignition source. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
Container	Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PROTECTION

General	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m ³ (for inspirable dust) and 3mg/m ³ (for respirable dust).
Exposure Limits	No Data Available
Biological Limits	No information available on biological limit values for this product.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	RESPIRATOR: Wear an approved respirator if vapours are generated and engineering controls are inadequate (AS1715/1716). EYES: Wear chemical safety glasses with side shields (AS1336/1337). HANDS: Wear rubber, neoprene or other resistant elastomer gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).
Work Hygienic Practices	No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Powder
Odour	None
Colour	Off White
pH	4.5 - 5.5
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling/Melting Point	No Data Available
Solubility	Soluble (15g/100mL) °C
Freezing Point	No Data Available
Specific Gravity	0.8 - 1.02g/cm ³
Flash Point	No Data Available

Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	No Data Available
Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning Rate of Solid Materials	No Data Available
Non-Flammables That Could Contribute	No Data Available
Unusual Hazards to a Fire	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	No Data Available

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Avoid excessive heat, generating dust, direct sunlight, moisture, heat, sparks, flame, fire, high humidity and high temperatures.
Materials to Avoid	Incompatible with oxidising agents, acids, bases, combustibles, moisture and all sources of ignition.
Hazardous Decomposition Products	When involved in a fire, this product may emit toxic fumes of nitrogen oxides, phosphorous oxides, carbon oxides, ammonia, potassium oxide, and chlorine oxides.
Hazardous Polymerisation	Hazardous polymerisation is not likely to occur.

11. TOXICOLOGICAL INFORMATION

General Information	Acute Oral Toxicity to Rat, LD50 of Main Ingredients (mg/Kg): Urea = 8750mg/Kg; KCl = 2600mg/Kg
Eye Irritant	May cause eye irritation.
Ingestion	Ingestion may cause digestive (gastrointestinal) tract irritation with abdominal pain, bloating, nausea, vomiting, and diarrhea. Prolonged exposure to small amounts may cause anemia, methahemoglobin, nephritis and be toxic to cardiovascular system.
Inhalation	High dust concentration or air-borne material may cause irritation of the nose and upper respiratory tract with symptoms such as sore throat and coughing.
Skin Irritant	May cause skin irritation.
Carcinogen Category	0

12. ECOLOGICAL INFORMATION

Ecotoxicity	No Information available on Ecotoxicity for this product.
Persistence/Degradability	Nitrogen follows the natural nitrification/denitrification cycle to give nitrogen or nitrogen oxides. Phosphates are converted to calcium or iron/ aluminium phosphates, or are incorporated into the organic soil matter. Potassium is mainly absorbed by clay minerals and partially remains as K ⁺ in the soil.
Mobility	Phosphates, whether water or citrate soluble, are moved in the soil only over very short distances and are then immobilised. The dissolved K ⁺ ion in the soil solution is absorbed by clay minerals. Only in light soils where clays are absent some potassium may be leached. Water Soluble (20g/100mL).
Environmental Fate	Do NOT allow product to reach waterways drains and sewers.
Bioaccumulation Potential	The product's components do not accumulate in the environment
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Special Precautions for Land Fill	Contact a specialist disposal company or the local waste regulator for advice. Do NOT burn empty packaging.

14. TRANSPORT INFORMATION

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

Air

IATA

Proper Shipping Name NOVA NPK 11-3-33+TE (OF)

Class No Data Available

Subsidiary Risk(s) No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Land

Australia: ADG Code

Proper Shipping Name NOVA NPK 11-3-33+TE (OF)

Class No Data Available

Subsidiary Risk(s) No Data Available

EPG No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

New Zealand: NZS5433

Proper Shipping Name NOVA NPK 11-3-33+TE (OF)

Class No Data Available

Subsidiary Risk(s) No Data Available

EPG No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Sea

IMDG

Proper Shipping Name NOVA NPK 11-3-33+TE (OF)

Class No Data Available

Subsidiary Risk(s) No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

EMS No Data Available

Marine Pollutant No

15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	No Data Available
AICS Name	POTASSIUM CHLORIDE (KCl)

16. OTHER INFORMATION

Key/Legend	<	Less Than
	>	Greater Than
	AICS	Australian Inventory of Chemical Substances
	atm	Atmosphere
	CAS	Chemical Abstracts Service (Registry Number)
	cm²	Square Centimetres
	CO₂	Carbon Dioxide
	COD	Chemical Oxygen Demand
	deg C (°C)	Degrees Celcius
	EPA (New Zealand)	Environmental Protection Authority of New Zealand
	deg F (°F)	Degrees Farenheit
	g	Grams
	g/cm³	Grams per Cubic Centimetre
	g/l	Grams per Litre
	HSNO	Hazardous Substance and New Organism
	IDLH	Immediately Dangerous to Life and Health
	immiscible	Liquids are insoluable in each other
	inHg	Inch of Mercury
	inH₂O	Inch of Water
	K	Kelvin
	kg	Kilogram
	kg/m³	Kilograms per Cubic Metre
	lb	Pound
	LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
	LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
	ltr or L	Litre
	m³	Cubic Metre
	mbar	Millibar
	mg	Milligram
	mg/24H	Milligrams per 24 Hours
	mg/kg	Milligrams per Kilogram
	mg/m³	Milligrams per Cubic Metre
	Misc or Miscible	Liquids form one homogeneous liquid phase regardless of the amount of either component present.
	mm	Millimetre
	mmH₂O	Millimetres of Water
	mPa.s	Millipascals per Second

N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organisation for Economic Co-operation and Development
Oz	Ounce
PEL	Permissible Exposure Limit
Pa	Pascal
ppb	Parts per Billion
ppm	Parts per Million
ppm/2h	Parts per Million per 2 Hours
ppm/6h	Parts per Million per 6 Hours
psi	Pounds per Square Inch
R	Rankine
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
tne	Tonne
torr	Millimetre of Mercury
TWA	Time Weighted Average
ug/24H	Micrograms per 24 Hours
UN	United Nations
wt	Weight

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.

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End of SDS