

SAFETY DATA SHEET

PRODUCT NAME: WS NPK LIPARI 13-3-20 + 1Mg + 5Ca + TE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier:	Baileys Fertilisers	Other Name(s):	Eurosolids NPK
Address:	PO Box 261 Rockingham Western Australia 6968	Recommended use:	Fertiliser
Telephone:	(08) 9439 1688 (Mon – Fri: 8.00am – 5.00pm)	Product Code:	F1302
Emergency Contact:	W.A. Poisons Information Centre on 131126		
Facsimile:	(08) 9439 1068		
Email:	baileys@baileysfertiliser.com.au		
Website:	baileysfertiliser.com.au		

2. HAZARD IDENTIFICATION

1. Signal Word:

DANGER

2. Hazard Symbols:



3. Hazard Statement:

H272 – May intensify fire; oxidiser.
H318 – Causes serious eye damage.

4. Precautionary Statements:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P221 – Take any precaution to avoid mixing with combustibles and/or organic materials.
P280 – Wear protective gloves, eye protection, and protective clothing.
P305+P338+P351 – IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses (if present, and easy to do so.) Continue rinsing.

5. Precautionary Statements:

Prevention: P265 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well ventilated area.

Response: P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
P362 Take off contaminated clothing and wash before reuse.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Contents % w/w
Potassium nitrate	7757-79-1	50 – 75
Calcium nitrate	10124-37-5	15 – 25
Potassium pentahydrogen bis(phosphate)	14887-42-4	< 10

4. FIRST AID MEASURES

- 1. Eye Contact:** Immediately lift eyelid and flush eyes with flowing water and completely remove materials by lifting the upper and lower lids. Transport to hospital or doctor. Remove of contact lenses after an eye injury should only be undertaken by skilled personnel.
- 2. Skin Contact:** Remove contaminated clothing and shoes immediately. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
- 3. Inhalation:** If fumes of combustion materials are inhaled, move to fresh air. Go to where fresh air is available. If necessary, provide first aid. (DRSABCD)
- 4. Ingestion:** Rinse and wash mouth with water. If swallowed do not induce vomiting. Lay patient down in recovery position. Get medical attention immediately.
- 5. Chronic effects from short and long term exposure:**
May cause eye, skin or respiratory irritation when exposed. Long term exposure of high dust concentrations may cause lung tissue damage. Ingestion may result in vomiting and severe digestive system irritation or burns. Inhalation may cause respiratory irritation. Eye and/or Skin contact may cause irritation.
- 6. First Aid Treatment and note to physician:** Treatment may vary depending on incident specifics and victim's condition.

5. FIRE FIGHTING MEASURES

- Extinguishing Media:** Water, dry powder, foam and carbon dioxide extinguisher. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire.
- Fire/Explosion Hazard:** Promotes combustion. Product is not self-ignitable, but may support combustion. In case of fire, there is potential for an explosion, especially if fertilisers are contaminated by incompatible chemical substances eg. oils.
- Hazardous decomposition products:** May release toxic and corrosive gasses/vapours (Sulphur dioxide, nitrous vapours, ammonia), and formation of metallic fumes.

6. ACCIDENTAL RELEASE MEASURES

- Spills and Disposal:** Dissolve in water, or use inert material (limestone, dolomite, gypsum, sand) to dilute spills, then carefully sweep up and shovel into suitable containers for reuse/recycle or disposal at an approved waste disposal site. Avoid runoff of spilt material into soils, waterways or drains. DO NOT MIX WITH SAWDUST OR OILS.

7. HANDLING AND STORAGE

- Safe Handling:** Wear appropriate PPE (refer to section 8). Use in a well ventilated area. Do not consume food or drink or smoke while handling.
Wash hands with soap and water after handling
- Storage and Transport:** Store in original container in a cool, dry, well-ventilated area, away from acidic, alkaline, combustible materials and organic matter. Keep out of reach of children.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standard:	Time Weighted Average (TWA): 10 mg/m ³ Short Term Exposure Limits (STEL): Not set.
Biological Limit Values:	No biological limit allocated.
Engineering Controls:	Use only in a well ventilated area and manage dust levels.
Personal Protective Equipment:	Wear gloves, safety boots, protective clothing and safety glasses with side shields. Use a class P2 respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

• Appearance:	Solid, white crystalline powder.
• Odour:	Odourless.
• Melting Point:	334°C (based on largest component – potassium nitrate).
• Vapour pressure:	Negligible at ambient temperatures.
• Flash point:	Not available.
• Flammability limits:	Not available.
• Solubility in water:	Easily soluble in water.
• Other:	None.

10. STABILITY AND REACTIVITY

Chemical Stability:	Material is stable under normal storage and handling conditions.
Conditions to avoid:	Extreme heat. Prevent moisture contact.
Incompatible materials:	Incompatible with strong acids, strong bases and oxidizing agents, combustible materials, metal powders, chlorates, aluminium, copper and zinc.
Decomposition products:	May release toxic and corrosive gasses/vapours (Sulphur dioxide, nitrous vapours, ammonia).
Hazardous reactions:	Hazardous polymerisation reactions will not occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Product Toxicity data (potassium nitrate):

LD50 Oral	LD50 Dermal	LC50 Inhalation
3870 mg/kg (Rat)	>5000 mg/kg (Rat)	>0.53 mg/l (rat/4hr)

Ingestion:	Ingestion of this material may cause oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock and death.
Eye contact:	Exposure may cause severe irritation and redness to the eye lids, conjunctiva. Untreated, prolonged eye contact can cause permanent and severe eye damage.
Skin contact:	Exposure to skin may cause redness, irritation, burning sensation, and swelling.
Inhalation:	Inhalation of this material may cause upper airway irritation, coughing, redness of mouth and upper airways.
Sensitization hazard:	Not classified as a skin sensitizer.
Long Term Effects:	No information available for the product.
Carcinogenicity:	Not classified as a carcinogen.
Specific target organ toxicity.	Respiratory Tract Irritation.
Mutagenic Data:	Not classified as a mutagen.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Mild water pollutant (surface water)
Ground water pollutant.
Maximum concentration in drinking water: 50mg/Lt (nitrate)
Not harmful to algae

Fish Toxicity:

Slightly harmful to fishes, plankton and invertebrates.

Potassium nitrate (7757-79-1)	
LC50 fish 1	162 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
EC50 other aquatic organisms 1	200 - 1000 mg/l (Plankton)
LC50 fish 2	1378 mg/l (96 h; Poecilia reticulata)
LC50 other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)
TLM fish 1	3000 mg/l (96 h; Lepomis macrochirus)
TLM fish 2	162 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
Threshold limit other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)

Additional:

May increase pH of waterways and adversely affect aquatic life. May cause eutrophication.

13. DISPOSAL CONSIDERATIONS

Waste from material:

Reuse or reprocess if possible. May be subject to disposal regulations. Check solution pH to determine disposal restrictions. Dispose in accordance with all applicable regulations.

Container Management:

Dispose of container in accordance with applicable local, regional, national and/or international regulations.

14. TRANSPORT INFORMATION

UN Number	UN1479	UN Proper Shipping Name	Oxidising solid, NOS	Class and Subsidiary Risk(s)	5.1
Packing Group	III	Special precautions for user	<i>Refer below</i>	Hazchem code.	N/A

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SPECIAL PRECAUTIONS FOR USER:

OVERLAND TRANSPORT	RAIL TRANSPORT
Classification code (ADR) : O2 Special provisions (ADR) : 274 Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1 Packing instructions (ADR) : P002, IBC08, LP02, R001 Special packing provisions (ADR) : B3 Mixed packing provisions (ADR) : MP2 Portable tank and bulk container instructions (ADR) : T1 Portable tank and bulk container special provisions (ADR) : TP33 Tank code (ADR) : SGAN Tank special provisions (ADR) : TU3 Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Loading, unloading and handling (ADR) : CV24 Hazard identification number (Kemler No.) : 50 Orange plates : <div style="border: 2px solid black; padding: 5px; display: inline-block; text-align: center;"> <div style="background-color: orange; color: black; width: 60px; height: 20px; margin: 0 auto; line-height: 20px;">50</div> <div style="background-color: orange; color: black; width: 60px; height: 20px; margin: 0 auto; line-height: 20px;">1479</div> </div>	Classification code (RID) : O2 Special provisions (RID) : 274 Limited quantities (RID) : 5kg Excepted quantities (RID) : E1 Packing instructions (RID) : P002, IBC08, LP02, R001 Special packing provisions (RID) : B3 Mixed packing provisions (RID) : MP2 Portable tank and bulk container instructions (RID) : T1 Portable tank and bulk container special provisions (RID) : TP33 Tank codes for RID tanks (RID) : SGAN Special provisions for RID tanks (RID) : TU3 Transport category (RID) : 3 Special provisions for carriage - Loading, unloading and handling (RID) : CW24 Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 50 Carriage prohibited (RID) : No
INLAND WATERWAY TRANSPORT	TRANSPORT BY SEA
Classification code (ADN) : O2 Special provisions (ADN) : 274 Limited quantities (ADN) : 5 kg Excepted quantities (ADN) : E1 Equipment required (ADN) : PP Number of blue cones/lights (ADN) : 0 Carriage prohibited (ADN) : No Not subject to ADN : No	Special provisions (IMDG) : 223, 274, 900 Limited quantities (IMDG) : 5 kg Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P002, LP02 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B3 Tank instructions (IMDG) : T1 Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-Q Stowage category (IMDG) : B

15. REGULATORY INFORMATION

AICS

All chemicals listed on the Australian Inventory of Chemical Substances (ACIS).

16. OTHER INFORMATION

Baileys Fertilisers has taken all due care to provide accurate and up-to-date information but does not provide a warranty concerning this information. It is the users' responsibility to assess the circumstances of use and assess the risks in any given situation.