SAFETY DATA SHEET

NPK 20-20-20 (+TE) | REVISION 4, DATE JULY 2026

1. IDENTIFICATION

Product Name	NPK 20-20-20 (+TE)
Other Names	NPK 20-20-20 with Trace Elements; Balanced Water-Soluble NPK Fertiliser; 20-20-20+TE
Uses	Water-soluble compound fertiliser. Used for foliar application, fertigation and soil application to supply nitrogen, phosphorus, potassium and essential trace elements throughout the crop growth cycle.
Product Type	Water-Soluble Fertiliser
Chemical Family	Compound mineral fertiliser blend (NPK with chelated/inorganic micronutrients)
Chemical Formula	Mixture – not applicable to a single formula
Chemical Name	Not applicable – multi-component fertiliser mixture
Product Description	NPK 20-20-20 (+TE) – balanced compound fertiliser containing 20% Nitrogen, 20% Phosphorus (P_2O_5), 20% Potassium (K_2O) with zinc, boron, iron and magnesium trace elements

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Green Pick Australia	6 Fernhill Lane Bayswater North VIC 3153 Australia	+61-426-571-061
Green Pick Iran	50 Khavaran Hwy, Industrial City Ivanaki, Taavoni 7 Tehran, Iran	+98-912-476-3248

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Australia – Westmead NSW	1800-251525 / 131126
Chemcall	Australia	1800-127406 / +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
National Poison Centre	Malaysia	+60-4-6536-999
Chemcall	New Zealand	0800-243622 / +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 / +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)	Not Scheduled

Globally Harmonised System

Hazard Classification	NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Signal Word	None

National Transport Commission (Australia)

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

Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code). Formulation does not contain oxidising nitrate salts at levels that would trigger a Class 5.1 classification.

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Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification	NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

Product presents no significant physical, health or environmental hazard when used and stored as directed. As with any fine powder, avoid generating and inhaling dust, and avoid unnecessary eye or skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	CAS Number	Proportion
Urea	57-13-6	20 – 30 %
Monoammonium Phosphate (MAP)	7722-76-1	20 – 30 %
Potassium Sulfate	7778-80-5	25 – 35 %
Magnesium Sulfate	7487-88-9	< 2 %
Boric Acid (Boron source)	10043-35-3	< 0.5 %
Zinc EDTA, Disodium Salt	14025-21-9	< 0.5 %
Iron EDTA, Sodium Salt	15708-41-5	< 0.5 %
Colourant (food/agricultural grade pink pigment)	Mixture	< 0.1 %
Other components below reportable levels	—	Balance

Note: Exact ratios of individual raw materials are proprietary and may vary between production batches while remaining within the guaranteed analysis in Section 9. No component is present above levels requiring individual hazard classification.

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Rinse mouth, then drink plenty of water. Get medical advice/attention if discomfort occurs. Never give anything by mouth to an unconscious person.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.
Eye	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.
Skin	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
Most Important Symptoms and Effects	May cause mechanical/mild irritation to eyes, skin and respiratory tract due to dust. No other significant symptoms known.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No information available.

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5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. Dike fire-control water for later disposal.
Flammability Conditions	Not flammable. May decompose at very high temperatures.
Extinguishing Media	Use water spray, dry chemical, carbon dioxide (CO2) or foam for extinction, as appropriate to the surrounding fire.
Fire and Explosion Hazard	Product is not classified as an oxidiser at the concentrations present. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.
Hazardous Products of Combustion	Thermal decomposition can release irritating gases and vapours, including oxides of nitrogen (NOx) and ammonia.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water – runoff may cause pollution.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
Flash Point	Not applicable (solid)
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	Ensure adequate ventilation, especially in confined areas. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.
Personal Precautionary Measures	Do not attempt to take action without suitable protective equipment (see SECTION 8).
Environmental Precautionary Measures	Avoid release to the environment. Prevent the product from entering drains, waterways or soil in uncontrolled quantities.
Containment	Stop leak if you can do it without risk. Prevent dust cloud. Prevent entry into waterways, sewers, basements or confined areas.
Clean Up Procedures	Take up mechanically. Sweep up and shovel into suitable containers for disposal or re-use (see SECTION 13).
Decontamination	Flush remainder with water.
Evacuation Criteria	Not normally required for this product. Isolate large spills and keep unauthorised personnel away.

7. HANDLING AND STORAGE

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8).
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Protect from moisture – product is hygroscopic. Keep away from foodstuffs and incompatible materials (see SECTION 10).
Container	Keep in the original container.
Incompatible Materials	Strong oxidising agents, strong acids, strong alkalis.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are established for this product as a mixture. Refer to jurisdictional exposure standards for individual components (e.g. particulates not otherwise classified) where dust levels are elevated.
Engineering Measures	A system of local and/or general exhaust ventilation is recommended to keep employee exposure to dust as low as possible.
Respiratory Protection	In case of inadequate ventilation, wear respiratory protection. Recommended: dust mask/particulate respirator (refer to AS/NZS 1715 & 1716).
Eye/Face Protection	Wear appropriate eye protection to avoid eye contact. Recommended: safety glasses or chemical goggles.
Hand Protection	Handle with gloves. Recommended: chemically resistant protective gloves.
Skin/Body Protection	Wear appropriate personal protective clothing to avoid skin contact. Recommended: overalls, safety shoes.
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse.
Biological Limits	No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystalline powder
Colour	Pink
Odour	No odour
pH (1% solution in water)	5.8 – 6.8
Water Solubility	Fully water-soluble; readily dissolves in water for fertigation and foliar application
Nitrogen (N)	20.0% ± 0.5%
Phosphorus (P_2O_5)	20.0% ± 1.0%
Potassium (K_2O)	20.0% ± 0.5%
Micronutrients	Zinc (Zn), Boron (B), Iron (Fe), Magnesium (Mg) present
Chloride (Cl^-)	≤ 0.5%
Heavy Metals	< 10 ppm
Melting Point	Decomposes before melting
Boiling Point	Not applicable (solid)
Flash Point	Not applicable
Decomposition Temperature	No Data Available
Vapour Pressure	Not applicable
Relative Vapour Density	Not applicable
Bulk Density	1,000 – 1,200 kg/m³ (typical)
Specific Gravity	No Data Available
Particle Size	Crystalline powder, predominantly < 1 mm
Partition Coefficient (n-octanol/water)	Not applicable (inorganic salt mixture)
Evaporation Rate	Not applicable
Viscosity	Not applicable (solid)
Oxidising Properties	Not classified as oxidising
Explosive Properties	Not classified as explosive; combustible dust hazard possible under specific conditions (see SECTION 5)

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10. STABILITY AND REACTIVITY

General Information	No dangerous reactions known under normal conditions of use.
Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Avoid generating dust. Avoid prolonged exposure to moisture/humidity. Keep away from heat and sources of ignition.
Materials to Avoid	Strong oxidising agents, strong acids, strong alkalis.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition at high temperature can release ammonia and oxides of nitrogen.
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	Acute toxicity: Not classified. Skin corrosion/irritation: Not classified. Eye damage/irritation: Not classified. Respiratory/skin sensitisation: Not classified. Germ cell mutagenicity: Not classified. Carcinogenicity: Not classified. Reproductive toxicity: Not classified. STOT (single exposure): Not classified. STOT (repeated exposure): Not classified. Aspiration toxicity: Not classified.
Likely Routes of Exposure	Ingestion may cause mild irritation to mucous membranes. Dust may cause mechanical irritation to eyes and respiratory tract. Not expected to be irritating to skin under normal use.
Ingestion (Oral)	Acute toxicity (based on major components – urea, MAP, potassium sulfate): LD50, Rat: > 2,000 mg/kg bw (read-across from major individual components)
Dermal	Acute toxicity (read-across from major components): LD50, Rabbit: > 2,000 mg/kg bw
Inhalation	Inhalation of dust in high concentration may cause irritation of the respiratory system.
Chronic Effects	No information available.
Carcinogen Category	None

Note: Toxicological data specific to this exact formulation has not been independently determined. Values shown are indicative, based on read-across from the major individual raw materials, and are provided for guidance only.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Aquatic toxicity data specific to this product is not available. As a compound fertiliser, elevated concentrations in surface waters may contribute to nutrient loading/eutrophication; direct acute toxicity to aquatic organisms at agricultural application rates is expected to be low.
Persistence/Degradability	Inorganic nutrient salts are not subject to biodegradation in the conventional sense; nitrogen, phosphorus and potassium are taken up by soil and plant systems.
Bioaccumulation Potential	Not expected to bioaccumulate.
Mobility	Highly mobile in soil/water due to high water solubility; this is intended, as the product is applied as a soil/fertigation/foliar nutrient source.
Environmental Fate	Not considered to cause long-term adverse effects on the environment when used as directed as an agricultural fertiliser. Avoid over-application and direct discharge to waterways to prevent nutrient enrichment.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	This material and its container must be disposed of in a safe manner. Collect and reclaim waste from residues/unused product(s) or dispose of in sealed containers at a licensed waste disposal site and in accordance with local/regional/national regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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14. TRANSPORT INFORMATION

Dangerous Goods Classification	NOT Dangerous Goods. This product is not restricted for transport by land, sea or air under any recognised transport code (ADG Code, ADR, IMDG Code, IATA DGR).
UN Number	Not Assigned
Class / Subsidiary Risk	Not Applicable
Pack Group	Not Applicable
Hazchem Code	Not Applicable
Marine Pollutant	No
Special Precautions	None required for transport. Ensure product is kept dry during transport and storage.
Comments	NON-DANGEROUS GOODS: Not regulated for LAND, SEA or AIR transport under any mode.

15. REGULATORY INFORMATION

Poisons Schedule (Aust)	Not Scheduled
General Information	Product is manufactured for use as an agricultural fertiliser/plant nutrient. Users should confirm local fertiliser registration requirements in the country of sale prior to distribution.

National/Regional Inventories

Inventory	Status
Australia (AIIC)	Components Listed
New Zealand (NZIoC)	Components Listed
Europe (REACh/EINECS)	Components Listed or Exempt (fertiliser raw materials)
USA (TSCA)	Components Listed or Exempt
Malaysia (List of Classified Substances)	Not Listed
Iran (National Chemical Inventory)	Not Determined

16. OTHER INFORMATION

±	Plus or Minus	≤	Less Than or Equal To
CAS	Chemical Abstracts Service (Registry Number)	K_2O	Potassium Oxide (expressed potassium content)
Cl^-	Chloride	kg/m^3	Kilograms per Cubic Metre
GHS	Globally Harmonised System of Classification and Labelling of Chemicals	LD50	Lethal Dose, 50% – the amount of a material, given all at once, which causes the death of 50% of a group of test animals
MAP	Monoammonium Phosphate	mg/kg	Milligrams per Kilogram
N/A	Not Applicable	NPK	Nitrogen, Phosphorus, Potassium (fertiliser grade)
P_2O_5	Phosphorus Pentoxide (expressed phosphorus content)	ppm	Parts per Million
STOT	Specific Target Organ Toxicity	TE	Trace Elements
TWA	Time Weighted Average	UN	United Nations

Revision	4
Revision Date	July 2026
Supersedes	Version 3, June 2026

This Safety Data Sheet has been prepared using available literature and read-across data for structurally similar NPK compound fertilisers, together with the specifications provided by Green Pick Australia for this product. To the best of our knowledge the information contained herein is accurate as of the date of issue; it is provided without warranty, expressed or implied. It is the responsibility of the user to determine the suitability of this information for their particular use and to comply with all applicable local, national and international regulations.

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