



Material Safety Data Sheet

MSDS No.	LPW4N	Issue Date: February 2007	Issued by Scotts Australia Pty Ltd
Product Name:	PETERS EXCEL HARD WATER GROW SPECIAL 18+4+15+TE		

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	PETERS EXCEL HARD WATER GROW SPECIAL 18+4+15+TE		
Product Code	2154		
Manufacturer	SCOTTS AUSTRALIA PTY LTD		
Address	11 Columbia Way Baulkham Hills NSW 2153 Australia		
Emergency Tel.	1800 033 111		
Telephone/Fax Number	Tel:(02) 8853 7300 Fax:(02) 8853 7310		
Recommended Use	Water soluble fertiliser		
Other Names	<u>Name</u>	<u>Product code</u>	
	EXCEL STANDARD ACIDIFIER	2154	

2. HAZARDS IDENTIFICATION

Hazard Classification	Australia: Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. New Zealand: Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land. HSNO Classification: Classified as 8.3A - A substance that is corrosive to ocular tissue
Risk & Safety phrases	R41 Risk of serious damage to eyes. R8 Contact with combustible material may cause fire. S17 Keep away from combustible material. S22 Do not breathe dust. S25 Avoid contact with eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33 Take precautionary measures against static discharges. S39 Wear eye/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Ingredients</u>
	Potassium, nitrate	7757-79-1	10-30 %	
	Magnesium nitrate, hexahydrate	13446-18-9	10-30 %	
	Urea phosphate	4861-19-2	10-30 %	
	Ammonium nitrate	6484-52-2	10-30 %	
	Sodium molybdate	7631-95-0	0-<1 %	
	Ingredients determined not to be hazardous	-	Balance	

4. FIRST AID MEASURES

Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.
Ingestion	Do NOT induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention.
Skin	Wash affected area extremely thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.



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Eye If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical attention.

First Aid Facilities Eye wash and normal washroom facilities.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Products Non combustible. Danger of toxic gases in case of fire.

Special Protective Equipment for fire Fighters Full protective clothing and self-contained breathing apparatus.

Specific Methods Collect water used to fight fire.

Specific Hazards Contact with combustible material may cause fire.

Hazchem Code 1Y

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Slippery when spilt, avoid accidents. Remove ignition sources. Evacuate all unnecessary personnel. Remove sources of heat, impact and friction. Wear protective clothing and minimise inhalation, skin and eye contact. Shovel/sweep up avoiding any dust generation into an antistatic bag or conductive container. If this material enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Avoid generating dust. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Label containers. Keep containers closed when not in use and handle containers with care. Do Not smoke. Avoid impact and friction. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet.

Conditions for Safe Storage Store in a well ventilated area away from heat and sources of ignition. Store away from food, drink, feedstuffs and incompatible materials. Store in suitable, labelled containers. Keep containers closed when not in use. Avoid any dust build-up by frequent cleaning and suitable construction of storage area. Keep storage separated from work areas. Inspect periodically for deficiencies such as damage or leaks. Avoid impact and friction.

Storage Temperatures Recommended 0 – 40°C

Recommended Materials Plastic bags

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the exposure standard for dust not otherwise specified is 10 mg/m³ (for inspirable dust) and 3 mg/m³ (for respirable dust). The limit applies to both Australia and New Zealand.

Biological Limit Values No biological limit allocated.

Engineering Controls Use with good general ventilation. If dusts are produced local exhaust ventilation should be used.

Respiratory Protection Where sufficient ventilation is not available, avoid breathing dust by wearing an AS 1716 approved P1 or P2 particulate filter respirator. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance



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Hand Protection of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices. Wear gloves of impervious material such as PVC. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Eye Protection Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Body Protection Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid white prills, flakes and powder
Odour Not available
Melting Point Not available
Boiling Point Not available
Solubility in Water Soluble
pH Value 2 – 3 (1% solution in water)
Vapour Pressure Not available
Vapour Density (Air=1) Not available
Bulk density 900-1100kg/m³
Flashpoint Not available
Flammable Limits-Lower Not available
Flammable Limits-Upper Not available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.
Conditions to Avoid Avoid dust formation, shock, static charge, friction, fire or other sources of ignition.
Incompatible Materials Combustible materials
Hazardous Decomposition Products Decomposition can result in the release of toxic and/or irritating fumes.
Hazardous polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology No toxicity data available for this product.

Inhalation Inhalation of dusts may irritate the respiratory system. May cause sensitisation by inhalation.

Ingestion Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Skin May cause redness, itching and irritation.
Eye Risk of serious damage to eyes. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.
Chronic Effects Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity No ecological data available for this product.
Persistence / Degradability Not available



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Mobility Not available
Information on Ecological Effects (Sodium molybdate)
LC50/96h (rainbow trout) = > 2800 g/l
(Calcium nitrate)
LC50/96h (rainbow trout) = 2400 mg/l
(Ammoniumnitrate)
LC50/96h (rainbow trout) = > 2800 g/l
EC50/48h (daphnia) = 100 µg/l
LC50/96h (rainbow trout) = 10 µg/l
EC50/72h (algae) = 74000 µg/l

Environ. Protection Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of waste according to federal, EPA and state regulations.

14. TRANSPORT INFORMATION

Transport Information Class 5.1
AUSTRALIA:
This material is a Class 5.1 - Oxidising Agent according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. This material is incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 2.1, Flammable gases
- Class 2.3, Toxic gases
- Class 3, Flammable liquids
- Class 4.1, Flammable Solids
- Class 4.2, Spontaneously combustible substances
- Class 4.3, Dangerous When wet
- Class 5.2, Organic peroxides
- Class 6.1, Toxic substances and Class 6.2 Infectious Substances (where the substances are fire risk substances)
- Class 7, Radioactive materials unless specifically exempted.
- Class 8, Corrosives
- Class 9, Miscellaneous substances (where the miscellaneous dangerous goods are fire risk substances), and
- Combustible Liquids.

NEW ZEALAND:

This material is classified as a Class 5.1 Oxidising Substance according to NZS 5433:1999 Transport of Dangerous Goods on Land. This material must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosive
- Class 2.1, Flammable gases
- Class 2.3, Toxic gases
- Class 3, Flammable liquids
- Class 4.2, Spontaneously combustible substances
- Class 4.3, Dangerous When wet
- Class 5.2, Organic peroxides
- Class 6.2, Infectious substances
- Class 8, Corrosives

Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are - Class 4.1, Flammable Solids



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- Class 6.1, Toxic Substances
- Class 7, Radioactive Materials unless specifically exempted Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:
 - Flammable Liquids (Class 3),
 - Class 4.1, Flammable Solids
 - Class 4.2, Spontaneously Combustible Substances
 - Class 4.3, Dangerous When Wet Substances
 - Class 5.2, Organic Peroxides
 - Class 6.1, Toxic Substances
 - Class 6.2, Infectious Substances
 - Class 8, Corrosive Substances

U.N. Number	1479
Proper Shipping Name	OXIDIZING SOLID, N.O.S. - (CONTAINS POTASSIUM NITRATE & MAGNESIUM NITRATE)
DG Class	5.1
Hazchem Code	1Y
Packaging Method	3.8.5.1
Packing Group	III
EPG Number	5B1
IERG	31

15. REGULATORY INFORMATION

Regulatory Information	Australia: Classified as hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC).
Poisons Schedule	Not Scheduled
National and or International Regulatory Information	New Zealand: Classified as Hazardous according to the Hazardous Substances (Classification) Regulations 2001. Group standard: Fertilisers (Corrosive) Group Standard 2006 HSNO Approval Number: HSR002569.
Hazard Category	Irritant, Oxidising

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS Created: February 2007	
Contact Person/Point	Scotts Australia Pty Ltd 11 Columbia Way Baulkham Hills NSW 2153 Phone (02) 8853 7300 Fax (02) 8853 7310 Emergency phone 1800 033 111 ...End Of MSDS...	New Zealand: 180c Great South Rd Takanini, Auckland Phone (09) 299 6558 Fax (09) 296 0186 Emergency phone 0800 734 607