



MATERIAL SAFETY DATA SHEET

Diamond White DG

Date of Issue: 19 September 2011

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product Name: Diamond White DG

Other Names: None

Recommended Use: Fertiliser

Supplier: Campbells Fertilisers Australasia

Address: 18 Raymond Road, Laverton North, Victoria, 3026

Telephone: (03) 9931 2211

Facsimile: (03) 9931 2201

Website: www.campbellsfert.com.au

Emergency Telephone Number: (03) 9931 2211 (business hours only 8.30 am to 5.00 pm)

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - DANGEROUS GOOD

Hazard Designation: Not classified as hazardous according to the criteria of NOHSC, based on available information

Risk Phrases: Not applicable

Safety Phrases: Not applicable

ADG Classification: Classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail., 7th Edition

SUSMP Classification: Exempt from Poison Scheduling

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component:	CAS Number:	Proportion (%):
Potassium Nitrate	7757-79-1	57.7
Ammonium Nitrate	6484-52-2	20.4

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4. FIRST AID MEASURES

If exposed, concerned or if symptoms persist, get medical attention/advice. If medical advice is needed, have product container or label at hand.

- Inhalation:** Avoid breathing dust. If inhaled, remove to fresh air.
- Skin Contact:** Avoid prolonged or repeated contact with skin. After handling, always wash hands thoroughly with soap and water. Get medical attention if irritation develops.
- Eye Contact:** In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
- Ingestion:** If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- First Aid Facilities:** Ensure washing facilities, including an eyewash, are available.
- Medical Personnel:** Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Suitable Extinguishing Media:** Use water only in flooding quantities. Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.
- Hazards from Combustion Products:** The product itself is not combustible but it can support combustion, even in absence of air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides, sulfur oxides, phosphorus oxides, metal oxide(s) and ammonia. It has high resistance to detonation. Heating under strong confinement can lead to explosive behaviour.
- Precautions for Firefighters and Special Protective Equipment:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Emergency Procedures:** If released in large quantities: Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilt material.

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Methods and Materials for Containment and Clean Up: Use a tool to scoop up solid or absorbed material and place into appropriate labelled waste container. Avoid all possible sources of ignition (spark or flame). Avoid creating dusty conditions and prevent wind dispersal. Avoid contact of spilt material and runoff with soil and surface waterways.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid creating dust when handling and avoid all possible sources of ignition (spark or flame). Avoid contamination by any source including metals, dust and organic materials.

Conditions for Safe Storage, including any Incompatibilities: Store and use away from heat, sparks, open flame, or any other ignition source. Avoid contact with combustible materials. Prevent moisture pick-up in handling and storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: No Exposure Limits set in Australia

Biological Limit Values No biological limit allocated

Engineering Controls: Use in a well-ventilated area

Personal Protective Equipment:

Respiratory Protection:
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Recommended: If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist.

Eye Protection:
Use dust goggles if high dust concentration is generated.

Hand Protection:
Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary - PVC, butyl rubber, nitrile rubber, natural rubber (latex).

Skin Protection:
Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid
Odour:	Not available
Vapour Pressure:	Not available
Vapour Density:	Not available
Boiling Point:	Not available
Freezing/Melting Point:	>170°C (338°F) (Ammonium nitrate)
Solubility:	Easily soluble in the following materials: cold water, hot water
Density:	0.8 to 1.3 g/cm ³
pH:	3 to 6 [Conc. (% w/w): 1%]

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage and handling conditions (see Section 7).
Conditions to Avoid:	On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides, sulfur oxides, phosphorus oxides, metal oxide(s) and ammonia. It has high resistance to detonation. Heating under strong confinement can lead to explosive behaviour.
Incompatible Materials:	Reactive or incompatible with the following materials: reducing materials, combustible materials, organic materials and acids.
Hazardous Decomposition Products:	Nitrogen oxides, sulfur oxides, phosphorus oxides, metal oxide(s).
Hazardous Reactions:	None specified.

11. TOXICOLOGICAL INFORMATION

Potential Acute Health Effects:	Adverse health effects are considered unlikely, when the product is used according to directions.
Acute Oral Toxicity:	Potassium Nitrate: LD ₅₀ Rat = 3540 mg/kg Ammonium Nitrate: LD ₅₀ Rat = 2217 mg/kg
Dermal Toxicity:	No specific data available
Inhalation Toxicity:	No specific data available
Skin Irritation:	No specific data available
Eye Irritation:	No specific data available
Sensitisation:	No specific data available
Chronic:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards

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Mutagenicity: No known significant effects or critical hazards
Teratogenicity: No known significant effects or critical hazards
Developmental Effects: No known significant effects or critical hazards
Fertility Effects: No known significant effects or critical hazards

12. ECOLOGICAL INFORMATION

Ecotoxicity: Aquatic:
 Potassium Nitrate:
 LC₅₀ 48 hours = 490 mg/L Daphnia (*Daphnia magna*)
 LC₅₀ 96 hours = 180 mg/L Fish - Guppy (*Poecilia reticulata*)

Persistence and Degradability: The product does not show any bioaccumulation phenomena.
 No known significant environmental effects or critical hazards.

Mobility: No data available

13. DISPOSAL CONSIDERATIONS

Disposal Methods, including Disposal of Containers: Empty containers or liners may retain some product residues. Do not empty into drains. Dispose of this material and its container as hazardous waste. Dispose of in accordance with all applicable local and national regulations.

Special Precautions for Landfill or Incineration: Do not incinerate product or containers.

14. TRANSPORT INFORMATION

UN Number: 1479
UN Proper Shipping Name: OXIDIZING SOLID, N.O.S. (Potassium nitrate, ammonium nitrate)
Class and Subsidiary Risk: 5.1
Packing Group: III
Special Precautions for User: None specified
HAZCHEM Code: 1WE

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15. REGULATORY INFORMATION

SUSMP:	Exempt from Poison Scheduling
APVMA:	Exempt from registration
State Departments of Agriculture / Primary Industries:	Registration not required for fertilisers
Australian Inventory of Chemical Substances (AICS):	All components listed

16. OTHER INFORMATION

Edition:	19 September 2011
Revision Due:	19 September 2016
Reason for Revision:	Initial version
Preparation Information:	Prepared by Campbells Fertilisers Australasia
Data Sources:	Supplier MSDS
Trademark Information:	None
Glossary:	
CAS	Chemical Abstract Services number, used to uniquely identify chemical compounds
NOHSC	National Occupational Health and Safety Commission
PPE	Personal protective equipment
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons

This MSDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Campbell's Fertilisers, it is the user's responsibility to determine conditions of safe use of the product.

END OF MSDS