

SAFETY DATA SHEET

Campbells Diamond Special C

Date of Issue: August 2016

1. IDENTIFICATION

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| Product Identifier: | Campbells Diamond Special C |
| Other Means of Identification: | soluble NPK |
| Recommended Use of the Chemical and Restrictions on Use: | Fertiliser |
| Details of Manufacturer or Importer: | Campbells Fertilisers Australasia 18 Raymond Road, Laverton North, Victoria, 3026 Phone: (03) 9931 2211 Fax: (03) 9931 2201 www.campbellsfert.com.au |
| Emergency Telephone Number: | (03) 9931 2211 (business hours only 8.30 am to 5.00 pm) 0418 350 726 (after business hours) |

2. HAZARD(S) IDENTIFICATION



Pictogram: Flame over Circle

GHS Hazard Class and Category:

Oxidising Solids Category 1: "Danger"

Hazard statement: H271: May cause fire or explosion; strong oxidizer

Precautionary Statements:

Prevention

P210 Keep away from heat.

P220 Keep away from clothing and other combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P280 Wear protective gloves and eye/face protection.

P283 Wear fire/flame resistant/retardant clothing.

Response

P306+P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

P370+P378 In case of fire: Use an extinguishing agent suitable for surrounding fire.



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Storage

No additional information

Disposal

P501 Dispose of contents/container in accordance with local, regional and national regulations.

ADG Classification: Based on available information, classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

SUSMP Classification: Not scheduled

3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Component: | CAS Number: | Concentration (%): |
|-------------------|-------------|--------------------|
| Potassium nitrate | 7757-79-1 | >54 |

4. FIRST AID MEASURES

Description of Necessary First Aid Measures:

Inhalation: Remove casualty to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms develop.

Skin Contact: If on clothing, rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Seek medical attention if symptoms occur. Launder contaminated clothing before reuse.

Eye Contact: In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical attention if symptoms occur.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention if large quantities of this material are swallowed.

First Aid Facilities: Ensure washing facilities, including an eyewash, are available and maintained.

Symptoms caused by Exposure:

Inhalation: No known effects

Skin Contact: No known effects

Eye Contact: May cause eye irritation.

Ingestion: No known effects

Medical Attention and Special Treatment:

None specified.

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5. FIRE FIGHTING MEASURES

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| Suitable Extinguishing Equipment: | Use any means suitable for extinguishing surrounding fire. |
| Specific Hazards arising from the Chemical: | Oxides of potassium and nitrogen. This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire. |
| Special Protective Equipment and Precautions for Fire Fighters: | Wear Safe Work Australia approved self-contained breathing apparatus with positive pressure and full protective clothing. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions, Protective Equipment and Emergency Procedures: | Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation. Prevent dust formation. Do not breathe dust. |
| Environmental Precautions: | In the event of a major spill, prevent spillage from entering drains or water courses. |
| Methods and Materials for Containment and Cleaning Up: | Stop leak if safe to do so and contain spill. Sweep up and place into a suitable container and dispose. Prevent dust formation. |

7. HANDLING AND STORAGE

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| Precautions for Safe Handling: | Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Avoid generating dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure. |
| Conditions for Safe Storage, including any Incompatibilities: | Store in a tightly closed original container in a cool, dry, well ventilated area. Protect from moisture, heat and sources of ignition. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not store together with acids, alkalis, reducing agents, organic materials and combustible materials. |

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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| Exposure Standards: | Potassium nitrate - Exposure – Derived No Effect Level (DNEL) Oral -12.5 mg/kg bw/day (general population) Dermal - 12.5 mg/kg bw/day (general population) 20.8 mg/kg bw/day (workers) Inhalation - 10.9 mg/kg bw/day (general population) 36.7 mg/kg bw/day (workers) |
| Biological Monitoring: | Not available. |
| Control Banding: | Not available. |
| Engineering Controls: | Maintain air concentration below occupational exposure standards, using engineering controls. |
| Individual Protection Measures e.g. Personal Protective Equipment (PPE): | Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work. <i>Eye and Face Protection:</i> Safety glasses with top and side shields or goggles. See Australian Standards AS 1336 and AS/NZS 1337 for more information. <i>Skin Protection:</i> Impervious gloves, protective clothing and boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information. <i>Respiratory Protection:</i> Disposable particulate mask or appropriate respirator when ventilation is inadequate. See Australian Standards AS/NZS 1715 and 1716 for more information. <i>Thermal Hazards:</i> No information available. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------------------------|----------------|
| Appearance: | White powder |
| Odour: | Odourless |
| Vapour Pressure (mm Hg): | Not applicable |
| Vapour Density (Air=1): | Non-volatile |
| Relative Density (Specific Gravity): | Not available |
| Boiling Point: | Not applicable |
| Melting Point: | 335°C |
| Solubility (water): | Not applicable |
| pH: | Not applicable |
| Flash Point: | Not applicable |
| Flammability: | Non flammable |
| Auto-Ignition Temperature: | Not applicable |
| Octanol/Water Partition Coefficient: | Not applicable |
| Particle Size: | Not available |

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Evaporation Rate: Not applicable
Decomposition Temperature 400°C (potassium nitrate)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of storage and handling.
Possibility of Hazardous Reactions: Will not occur
Conditions to Avoid: Extreme humidity and excess heat
Incompatible Materials: Acids, alkalis, reducing agents, organic materials and combustible materials
Hazardous Decomposition Products: Oxides of potassium and nitrogen.

11. TOXICOLOGICAL INFORMATION

Toxicological Information of the Mixture:

Acute Toxicity: *For potassium nitrate*
 Oral LD₅₀ (rat) = 3540 mg/kg
 Dermal LD₅₀ (rat) = 5000 mg/kg
 Inhalation LC₅₀ (rat) = 527 mg/m³
 After ingestion, nitrates are reduced to nitrites by bacteria in the lower intestine of the adult. However, in babies, which have a physiological gastric achlorhydria (lack of HCl in the stomach), the reduction occurs in the stomach and duodenum from which the nitrites are readily absorbed into the blood stream. Furthermore, methemoglobinreductase (NADHcytochrome b5 reductase) in infants has not yet reached full activity. After absorption, nitrites convert oxyhemoglobin into methemoglobin and thus interfere with oxygen transport in the blood, resulting in methemoglobineamia ('blue baby syndrome'). Nitrites can also cause vasodilation, which, like methemoglobineamia, is dose-related.

Skin Corrosion/Irritation: Not expected to be a hazard.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Not expected to be a hazard.

Germ Cell Mutagenicity: Not expected to be a hazard.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

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Reproductive Toxicity: Not expected to be a hazard.

Specific Target Organ Toxicity (STOT) - Single Exposure: Not expected to be a hazard.

Specific Target Organ Toxicity (STOT) - Repeated Exposure: Not expected to be a hazard.

Aspiration Hazard: Not expected to be a hazard.

Likely Routes Of Exposure

Inhalation: No known significant effects or critical hazards.

Skin: No known significant effects or critical hazards.

Eye: May cause eye irritation.

Ingestion: No known significant effects or critical hazards.

Delayed and Immediate Effects from Short and Long Term Exposure:

Not expected to be a hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity: *For potassium nitrate*
 LC₅₀ 96 hr (fish) = 1378 mg/L
 EC₅₀ 48 hr (water flea) = 490 mg/L
 May cause long-term adverse effects in the aquatic environment

Persistence and Degradability: In aqueous solutions, the substance will dissociate into potassium and nitrate ions. Under anoxic conditions, denitrification occurs and nitrate is ultimately converted into molecular nitrogen as part of nitrogen cycle.

Bioaccumulative Potential: Not expected to bioaccumulate

Mobility in Soil: Nitrates have a low potential for adsorption. Portion not taken up by plants, can leach to groundwater.

13. DISPOSAL CONSIDERATIONS

Product Disposal: Dispose according to applicable local and state government regulations.

Container Disposal: Please consult your state Land Waste Management Authority for more information.

14. TRANSPORT INFORMATION

Classification: Based on available information, classified as Dangerous Goods for transport by road or rail according to the Australian Code for the

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| | Transport of Dangerous Goods by Road and Rail, 7 th Edition. |
| UN Number: | 1486 |
| Proper Shipping Name or Technical Name: | Potassium nitrate |
| Transport Hazard Class: | 5.1 |
| Packing Group: | III |
| Environmental Hazards for Transport Purposes: | None known |
| Special Precautions for User: | None known |
| HAZCHEM Code: | 1Z |

15. REGULATORY INFORMATION

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|---------------------------------------------------------------|---------------------------|
| SUSMP: | Not scheduled |
| APVMA: | Exempt from registration |
| State Departments of Agriculture / Primary Industries: | Registration not required |
| Australian Inventory of Chemical Substances (AICS): | All components listed |
| Toxic Substance – NZ | Exempt |

16. OTHER INFORMATION

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|---------------------------------|-----------------------------------------------|
| Edition: | Initial edition |
| Revision Due: | June 2021 |
| Reason for Revision: | Initial version |
| Preparation Information: | Prepared by Campbells Fertilisers Australasia |
| Data Sources: | Supplier SDS |

Glossary:

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| ACGIH | American Conference of Government Industrial Hygienists |
| APVMA | Australian Pesticides and Veterinary Medicines Authority |
| CAS | Chemical Abstract Services number, used to uniquely identify chemical compounds |
| NOHSC | National Occupational Health and Safety Commission |



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- PPE** Personal protective equipment
SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

This SDS 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 SDS