

MATERIAL SAFETY DATA SHEET

SPECTRUM PACIFIC PRODUCTS INC.

BLENDED FERTILIZERS

EMERGENCY PHONE NUMBERS:
SURREY, BC (604) 833-6462

PRODUCT IDENTIFICATION

Product Name: Fertilizer
Chemical name: Nutrients: Nitrogen (N), Phosphorus (P), Potassium (K)
Molecular Formula: Mixture
Products Covered: Black Magic Extra 25-9-9, Black Magic Defender 25-9-9,
Black Magic Aqua-Zorb 25-9-9, Black Magic Ultra 25-9-9

SHIPPING DESCRIPTION (UNDER TDG ACT)

Shipping Class/Division: Not a controlled product under WHMIS
Product Identification No. (PIN): Not regulated Packing Group: Not regulated

HAZARDOUS INGREDIENTS OF MATERIAL

| Hazardous Ingredients | ACGIH (TWA, mg/m3) | CAS No. |
|--|--------------------|------------|
| Any or all of the following: | | |
| Urea | 10mg/m3 | 57-13-6 |
| Methylene Urea | None listed | 68611-64-3 |
| Monoammonium phosphate | 15mg/m3 | 7722-76-1 |
| Sulfate of Potash | 15mg/m3 | 7778-80-5 |
| K- Mag (Potassium, Magnesium Chloride) | None listed | Various |
| Granulol SE Micronutrients Mix: | | |
| Iron Oxide | NA | 8047-67-4 |
| Manganese | NA | 7439-96-5 |
| Zinc | NA | 7440-66-6 |
| Cupric Oxide | 1 | 1317-39-1 |
| Boron Oxide | 10T, 5R | 1303-86-2 |
| Molybdenum | NA | 7631-95-0 |

PHYSICAL PROPERTIES

Physical State: Solid
Appearance and Odour: Granular material containing grey or multicoloured prills.
Little odour or develops odour of ammonia.
Odour Threshold: Not available
Bulk Density: 80 to 120 g/100 ml
Melting/Freezing Point (C): Not applicable
Vapour Pressure: Not applicable
Solubility: Nutrient portion is water-soluble
Coefficient of Water/Oil Distribution: Not avail.
Sensitivity of Static Discharge: Not available
Explosive Power: Not available

Specific Gravity: 1.0 - 1.8
Boiling Range (C): Not applicable
% Volatile by Volume: Not applicable
Evaporation Rate: Not applicable
pH: 7.0 to 8.5 (10% w/w in water)
Sensitivity of Mechanical Impact: Not avail.
Rate of Burning: Not available

REACTIVITY DATA

Stability: Under Normal Conditions: Stable; Under Fire Conditions: Unstable; Hazardous Polymerization: will not occur.
Conditions to Avoid: High heat. Prolonged exposure to high temperatures may result in some decomposition. The higher the temperature, the more rapid the decomposition.
Materials to Avoid: Hypochlorites, oxidizers, peroxides, acids, copper.
Hazardous Decomposition of Combustion Products: Ammonia, carbon monoxide, cyanuric acid, sulphur.

FIRE AND EXPLOSION DATA

Flash Point (Method): Not applicable
Autoignition Temperature: Not applicable
Flammability Limits in Air (%): LEL: None UEL: None
Fire Extinguishing Media: Use alcohol foam, or CO₂ or dry chemical.
Do not use water on material itself.

Fire Fighting Procedures: Wear self-contained breathing apparatus and impervious clothing. Smoke from fires involving this product will present unusual hazards. Avoid breathing smoke and mists. Avoid contact with fallout and runoff. Minimize the amount of water used for firefighting. Dike area to prevent runoff. Avoid use of high pressure hose if possible, as this may cause the product to spread from the broken containers, increasing contamination hazards. Isolate debris for proper disposal.
Other Fire or Explosion Hazards: Noxious and/or toxic fumes may be generated as a result of decomposition of urea.

TOXICOLOGICAL AND HEALTH DATA

Recommended Exposure Limit: None established for this mixture.
Reproductive Effects: The ingredients of this product are not reproductive toxins.
Mutagenicity Data: The ingredients of this product are not mutagenic.
Teratogenicity Data: The ingredients of this product are not teratogenic.

Effect of Exposure when:

Inhaled: Not a likely route of exposure.
In contact with the skin: Dust may cause irritation due to abrasive action.
In contact with the eyes: May cause irritation and redness.
Ingested: Not a likely route of exposure

First aid procedures when:

Inhaled: None likely required. Move victim to fresh air.

In contact with the skin: Remove contaminated clothing. Wash affected areas with soap and water. If irritation persists, obtain medical advice.
In contact with the eyes: Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention.

Ingested: Not a likely route of exposure.

Ingestion of large amounts of dust may cause nausea and abdominal pain.
Ingested: None likely required. If victim is alert and not convulsing, give 1/2 to 1 glass of water to dilute material. DO NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention immediately.
Emergency Medical Care: Treat symptomatically.

PREVENTIVE MEASURES

Recommendations listed in this section indicate the type of equipment which will provide protection against overexposure to this product.
Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

Respiratory Protection: A NIOSH/MSHA approved respirator against nuisance dusts if dust levels exceed exposure limits.

Skin Protection: Use gloves made from Nitrile, Nitrile-coated, Half-coated Nitrile, or Vinyl-coated. Please refer to: "Treeplanter Fertilizer & Pesticide Pamphlet" on our website for more info.
Handling Procedures: Wash hands thoroughly with soap and water after handling, before eating, drinking, urinating or smoking.

Storage: Store in a cool, dry, well ventilated area out of direct sunlight.

Conditions to Avoid: High heat. Prolonged exposure to high temperatures may result in some decomposition and the production of gaseous nitrogen oxides. The higher the temperature, the more rapid the decomposition. If decomposition is suspected, discontinue use of the product until its safety has been confirmed.

Other Precautions: Keep out of reach of children. Read the label before use.

ENVIRONMENTAL PROTECTION DATA

Steps to be taken in the event of a spill or leak: Stop leak and clean up spills immediately, noting protective clothing required under Preventive Measures above.

For small spills: Stop leak, isolate area, and contain spill, keeping it out of sewers and drains by covering spilled material with a generous amount of granular clay or other suitable material. Sweep up spilled material and recycle if possible. If not, shovel into a disposable container. Disposal containers must be labelled appropriately.
Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

In case of a major spill, isolate and barricade area and keep bystanders away.
Contact local government environmental authorities and manufacturer for advice.

Containers disposal:

Dispose of empty container with household garbage. DO NOT REUSE EMPTY CONTAINER. Keep away from children.
Waste product disposal: Dispose of waste material at an approved landfill site in accordance with local, provincial, or federal regulations.

The data presented herein is believed to be accurate but is in no way guaranteed. It is offered as a guide to the handling of the specific material. Spectrum Pacific Products Inc. assumes no liability in connection with any use for the products discussed and makes no warranty in that respect. It cannot be assumed that all safety measures are indicated herein or that other or additional measures may not be required. The user must assume full responsibility, both as to persons and property for the use of these materials.

DATE: November 25, 2018