

# MATERIAL SAFETY DATA SHEET

## SPECTRUM PACIFIC PRODUCTS INC.

### BLENDED FERTILIZERS

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

#### PRODUCT IDENTIFICATION

Product Name: Fertilizer, not containing pesticides  
Registration Number: Not applicable  
Chemical name: Nutrients: Nitrogen (N), Phosphorus (P), Potassium (K)  
Synonyms: Not available Chemical Family: Not available  
Molecular Formula: Mixture Product Use: Fertilizer  
Products Covered: (as % N-P-K) 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, Black Magic Accu-Pro 25-9-9, Aqua Zorb

#### SHIPPING DESCRIPTION (UNDER TDG ACT)

Shipping Name: Not regulated Shipping Class/Division: Not regulated  
Product Identification No. (PIN): Not regulated Packing Group: Not regulated

#### HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	ACGIH	CAS No.
Any or all of the following:		
Urea	None listed	57-13-6
Fritted Micronutrients	1 mg/m3	7720-7-87
Ferrous Sulphate	1 mg/m3	7720-78-7
Methylene Urea	None listed	68611-64-3
Ammonium sulphate	10 mg/m3	77-83-20-2
Potassium chloride	10 mg/m3	7447-40-7
Calcium carbonate	10 mg/m3	1317-65-3
Triple superphosphate	None listed	7758-23-8
Monoammonium phosphate	None listed	7783-28-0
Ammonium phosphate-sulphate	None listed	None Listed
Gypsum	None listed	None Listed

#### 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 temperatures above 37.5 C 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 CO<sub>2</sub> 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 and sulphur coated urea.

#### TOXICOLOGICAL AND HEALTH DATA

Recommended Exposure Limit: None established for this mixture. (See "Hazardous Ingredients of Material")

Toxicological Data: This product has not been tested.

Potassium Chloride LD50 (oral, rats) = 2600 mg/kg  
Urea LD50 (oral, rats) = 14,300 mg/kg

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.

Synergistic Materials: None known

Effect of Exposure when: Inhaled: Not a likely route of exposure. Dust may be irritating to the eyes and respiratory tract and can cause central nervous system (CNS) depression. (See "Other Health Effects").

In contact with the skin: Dust may cause irritation due to abrasive action and possible sensitization. In contact with the eyes: May cause irritation, redness and pain.

Ingested: Not a likely route of exposure. Ingestion of large amounts of dust may cause gastrointestinal upset (nausea) and abdominal pain. Ingestion of very large amounts may cause central nervous system (CNS) depression, kidney and liver damage, and systemic poisoning. See "Other Health Effects".

Other Health Effects: CNS depression is characterized by headache, dizziness, drowsiness, nausea, vomiting, abdominal pain and incoordination. Severe overexposures may lead to coma and possible death due to respiratory failure.

Sensitization is the process whereby a biological change occurs in the individual because of previous exposure to a substance and, as a result, the individual reacts more strongly when subsequently exposed to the substance. Once sensitized, an individual can react to extremely low airborne levels, even below the TLV, or to skin contact.

First aid procedures when:

Inhaled: None likely required. Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Given cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical advice immediately.

In contact with the skin: Remove contaminated clothing. Wash affected areas with soap and water. If irritation persists, obtain medical advice immediately.

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 IMMEDIATELY.

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.

Engineering controls: General exhaust is acceptable.

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

Skin Protection: Use gloves and protective clothing made from cotton, rubber or plastic.

Eye Protection: Safety glasses with side shields are recommended to prevent eye contact.

Other Personal Protective Equipment: None required.

Handling Procedures and Equipment: Wash thoroughly with soap and water after handling.

Storage: Store in a cool dry place. Storage Temperature (C): MIN: none MAX: 37.5

Other Precautions: Keep out of reach of children. Follow good housekeeping practices when using this product. 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. In case of a major spill, isolate and barricade area and keep bystanders away. Contact local government environmental authorities and manufacturer for advice.

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 diluent. Sweep up spilled material, being careful not to create dust, and recycle if possible. If not, shovel into a disposable container. Disposal containers must be labelled appropriately.

Environmental Effects: This product may be toxic to fish and aquatic life. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Deactivating Chemicals: None known.

Waste Disposal Methods: Containers disposal: Crush, puncture, or otherwise destroy empty container before 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. Do not dispose of waste with normal garbage or in local sewage system.

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 as to property for the use of these materials.

This information was compiled from Material Safety Data Sheets supplied by the following manufacturers: Viridian Hydro Agri Agrium J.R. Simplot Co.  
IMC - Kalium Unocal National Refractories

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