



# MATERIAL SAFETY DATA SHEET

DATE : 7/23/09

MSDS # :

NEW ☒ REVISED

## SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME : GARDENIA, AZALEA, CAMELLIA PRODUCT NO. : 122408, 122409, 122407, 122406

CHEMICAL NAME : Nitrogen, Phosphorus & Potash Minerals; alone or as a blend

CHEMICAL FAMILY : n/a

CASE NO. : n/e

## SECTION II - PHYSICAL DATA

PHYSICAL FORM : Granules

COLOR : Natural Mineral

BULK DENSITY : 35-52# cu ft

ODOR : Fertilizer Salt

SOLUBILITY : Generally, slowly soluble in soil

SPECIFIC GRAVITY : 0.5606 to 0.8329

FLASH POINT : >400° F CC Test Method

PH : 5.0 - 8.0

## SECTION III - COMPOSITION

TOTAL PLANT FOOD VALUE : Non-toxic plant food mineral substance varying from 3% up to 61% comprised of a single mineral nutrient or combinations of various N-P-K source plant foods derived from:

1. Urea, Sulfur Coated Urea, Organic, or Ammoniated Nitrogen sources
2. Ammoniated or Mineral Phosphates
3. Salts or Sulfate sources of Potash
4. Inert granule Physical Conditioners-Extenders and/or Minor Nutrient, Chelate or Trace Mineral Nutrient plant food mixtures

## SECTION IV - HEALTH DATA

STATEMENT OF HAZARDS : Caution : Harmful if swallowed. Keep out of eyes. May cause skin and eye irritation of mucous membranes as a fertilizer "salt".

PERMISSIBLE EXPOSURE LIMIT : None established. The OSHA nuisance dust limit of 15 mg/m<sup>3</sup> or the ACGIH nuisance dust TLV of 10 mg/m<sup>3</sup> for the eight hour time weighted average applies.

LD50 ORAL : 1500 mg/kg

LD50 DERMAL : 2000mg/kg

FIRST AID : IF SWALLOWED, induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. IF IN EYES, flush eyes with plenty of water. IF ON SKIN, remove contaminated clothing and wash affected area with soap and water. IF INHALED, remove to fresh air. If discomfort continues, seek medical attention.

EFFECTS OF OVER EXPOSURE : Burning eyes, skin irritation. PRECAUTIONARY MEASURES : Protect skin and eyes from airborne dusts. SPILL OR LEAK PROCEDURES : Sweep up product and replace in labeled container. Use product according to Directions for Use or dispose of as directed on label.

FOR HEALTH EMERGENCIES CALL YOUR LOCAL POISON CONTROL CENTER

## SECTION V - FIRE AND EXPLOSION PROTECTION

FLASH POINT : >400° F CC Test Method

FLAMMABLE LIMITS : n/a

EXTINGUISHING MEDIA : Water, Foam or CO<sub>2</sub>

**SPECIAL FIRE FIGHTING PROCEEDURES :** Wear full protective clothing and self contained breathing apparatus. **UNUSUAL FIRE OR EXPLOSION HAZARDS :** Urea may decompose to cyanuric acid, ammonia, hydrogen cyanide and nitrogen oxides. For products containing sulfur coated urea, sulfur can produce sulfur oxides. Hydrogen sulfide is a reaction product and is toxic and explosive. Sulfur dust will explode at a minimum concentration of 35 g/m<sup>3</sup> air.

## **SECTION VI - SPECIAL PROTECTION INFORMATION**

**RESPIRATOR TYPE :** None needed with adequate ventilation or out-of-doors. If inadequate ventilation where dust concentrations exceed recommended Permissible Exposure Limits use Noish approved dust respirators. **EYE PROTECTION :** Use tight fitting goggles if inadequate ventilation to reduce dust exposure to the eyes. **GLOVES :** None needed. **OTHER PROTECTIVE EQUIPMENT :** None needed under normal conditions.

## **SECTION VII - REACTIVITY DATA**

**STABILITY :** Stable **POLYMERIZATION :** Will not occur  
**CONDITIONS TO AVOID :** Do not allow bags to become wet. Avoid heating above 100°C (212°F)  
**HAZARDOUS DECOMPOSITION PRODUCTS :** Above 132.7° (271°F) urea decomposes to biuret, cyanuric acid, ammonia and carbon dioxide. In products containing sulfur coated urea, sulfur forms sulfur oxide when burned. Hydrogen sulfide is a reaction product. Nitrogen oxides may form in fire conditions. Hydrogen cyanide may be formed.

## **SECTION VIII - STORAGE - DISPOSAL AND SPILL PROCEEDURES**

**STORAGE :** Store product in its original labeled container in a cool, dry, locked place out of reach of children. **STORAGE TEMPERATURES :** No requirement. **SHELF LIFE :** 5 to 7 years of good physical condition if stored properly. **DISPOSAL :** Do not contaminate water, food or feed by storage or disposal. If product cannot be used according to instructions excess product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL :** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and Local authorities by burning. If burned stay out of smoke. **SPILL PROCEDURES :** Sweep-up and place product back into labeled bag. Use according to instructions or use disposal procedures.

## **SECTION IX - TRANSPORTATION REQUIREMENTS**

**D.O.T. SHIPPING NAME :** Fertilizer Plant Food  
**D.O.T. HAZARD CLASS :** Non-hazardous  
**D.O.T. LABELS REQUIRED :** None

**FOR TRANSPORTATION EMERGENCIES CALL CHEMTREC 1-800-424-9300**

### **CONCERNING THIS MATERIAL SAFETY DATA SHEET**

THE INFORMATION CONTAINED HEREIN IS OFFERED ONLY AS A GUIDE TO THE HANDLING OF THIS SPECIFIC MATERIAL. SINCE SUCH INFORMATION DOES NOT RELATE TO USE OF THE MATERIAL WITH ANY OTHER MATERIAL OR IN ANY PROCESS, ANY PERSON USING THIS INFORMATION MUST DETERMINE FOR HIMSELF ITS SUITABILITY FOR ANY PARTICULAR APPLICATION. THE BUYER AND USER ASSUMES ALL RISK AND LIABILITY OF USE. STORAGE AND/OR HANDLING OF THIS PRODUCT NOT IN ACCORDANCE WITH THE TERMS OF THE PRODUCT LABEL.

Abbreviations key :

N/A = Not available or applicable

N/E = Not established

TLV = Threshold Limit Value

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