

Garden Naturals Rose & Flower Plant Food 3-4-3

Material Safety Data Sheet  
May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be consulted  
for specific requirements.

U.S Department of Labor  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

**Bonide Garden Naturals Rose & Flower Plant Food 3-4-3**

**ID # 7101**

Date: December 11, 2007

**Section I**

Bonide Products, Inc.  
6301 Sutliff Road  
Oriskany, NY 13424

(800) 424-9300  
(315) 736-8231

**Section II - Hazardous Ingredients/Identity**

Hazardous Components (Specific Chemical Identity: Common Name(s) OSHA PEL ACGIH TLV Other Limits % (Optional)

Contains the following non-hazardous ingredients: alfalfa meal, kelp, bone meal, poultry litter, nitrate of soda, greensand and sulfate of potash.

**Section III - Physical/Chemical Ingredients**

BOILING POINT: NA ph: NA  
SPECIFIC GRAVITY: NA DENSITY: NA  
VAPOR PRESSURE: NA  
VAPOR DENSITY: NA  
SOLUBILITY IN WATER: partially soluble  
EVAPORATION RATE: NA  
APPEARANCE AND ODOR: Dark brow to Multi-colored granules, Earthy smell, with slight ammonia odor.

**Section IV - Fire and Explosion Data**

FLASHPOINT: Not flammable FLAMMABLE LIMITS: NA  
EXTINGUISHING MEDIA: Use water or other agent suitable for surrounding fire.  
SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition products may be toxic.

**Section V - Reactivity Data**

CONDITIONS TO AVOID: Excessive Heat (greater than 200°F); contact with nitric acid, hypochlorites, gallium perchlorate.  
INCOMPATIBILITY: With acids, oxidizers, caustics.  
Product is stable and hazardous polymerization will not occur.

**Section VI - Personal Protection Information**

RESPIRATORY PROTECTION: NIOSH approved particulate respirator, if required.  
EYE PROTECTION: Safety glasses with side shields, goggles, or faceshield are recommended.  
SKIN PROTECTION: Long sleeves, cotton gloves  
VENTILATION: Local exhaust ventilation preferred

**Section VI - Health Hazard Information**

ROUTES OF ENTRY: Ingestion, inhalation, eyes and skin contact. MOST LIKELY ROUTE OF ENTRY: Dermal.  
Product is considered to be of low to moderate toxicity. May be harmful if swallowed or inhaled. May cause irritation of eyes, nasal passages, throat and skin. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis or other skin reactions, possible due, in part, to the removal of some natural oils and fats from the skin.  
EMERGENCY AND FIRST AID PROCEDURES: Call a physician immediately in all cases of suspected poisoning.

INGESTION: Drink 1 or 2 glasses of water to dilute material. Do not induce vomiting, as potential aspiration may induce chemical pneumonia. EYES: Flush with running water for at least 15 minutes while holding eyelids open. If irritation persists, get medical attention. SKIN: Remove all contaminated clothing. Wash skin and hair thoroughly with soap and water. Wash clothing before reuse. If irritation persists, get medical attention. INHALATION: Remove to fresh air. If irritation persists, get medical attention. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known. Preexisting skin or respiratory disorders may be aggravated by excessive exposure to this material. POTENTIAL CARCINOGEN STATUS: Tests on laboratory animals with highly-refined oils such as those contained in this product have shown no evidence of carcinogenicity. None of the other components in this product is listed by IARC, NTP or OSHA as a carcinogen.

## **Section VII - Precautions for Safe Handling/Use**

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HANDLING AND STORAGE: Store in a cool, dry place away from children, domestic animals, food and feed products. Do not contaminate other stored products or the storage area by handling or storage of this product. Immediately clean up any spills, which occur during handling and storage. Always practice good hygiene when working with this or any chemical.

OTHER PRECAUTIONS: Do not contaminate water supplies by handling or storage of product, cleaning of equipment or disposal of wastes. Keep work and storage areas clean. Read and follow precautionary measures on product label.

RESPIRATORY PROTECTION (Specify type): Not normally required. If dust may exceed acceptable levels, wear MSHA/NIOSH-approved respirator or mask to protect against pesticide dusts, mists and vapors.

PROTECTIVE GLOVES: Work gloves or impervious gloves. If prolonged exposure cannot be avoided, wear impervious gloves. Wash hands and exposed skin thoroughly after handling.

EYE PROTECTION: None normally required; follow local work rules. Chemical goggles or shielded safety glasses recommended for prolonged or repeated exposure.

OTHER PROTECTIVE EQUIPMENT: Wear clothing consistent with good practices for handling and applying pesticides. Wash clothing before reuse.

## **Section VIII - Environmental and Disposal Information**

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SPILL OR LEAK PROCEDURES: Sweep up spilled product and reuse or place in container for disposal.

WASTE DISPOSAL METHOD: Material, which cannot be used, should be disposed of in an approved manner, following all applicable Federal, State and local regulations.

NOTICE: This information is believed to be accurate and reliable. However, no guarantee expressed or implied is made with respect to the information contained herein.

### **KEEP OUT OF REACH OF CHILDREN**

#### **ABBREVIATION KEY**

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N/A: NOT AVAILABLE OR APPLICABLE      N/E: NOT ESTABLISHED      ND: Not Determined  
TLV: THRESHOLD LIMIT VALUE      TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY  
STEL: SHORT TERM EXPOSURE LIMIT D.O.T.: DEPARTMENT OF TRANSPORTATION

#### **DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.