

MATERIAL SAFETY DATA SHEET

Date-Issued: 09/02/2004
MSDS Ref. No: 100023
Date-Revised: 09/02/2004
Revision No: New MSDS

Miracle-Gro® Rose Plant Food 18-24-16

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Miracle-Gro® Rose Plant Food 18-24-16
PRODUCT DESCRIPTION: Water Soluble Fertilizer

MANUFACTURER

The Scotts Company
 Earthgro-Hyponex-Miracle Gro
 Scotts-Scotts Sierra-Swiss Farms
 14111 Scottslawn Road
 Marysville, OH 43041

PN: S9960

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
International: 1-703-527-3887
Emergency Phone: 1-937-644-0011

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Potassium Phosphate	7778-77-0	None	None
Ammonium Sulfate	7783-20-2	None	None
Urea	57-13-6	None	None
Copper Sulfate	7758-98-7	None	1 mg (Cu)/m ³
Iron EDTA	15708-41-5	None	None
Manganese EDTA	15375-84-5	None	None
Zinc Sulfate	7733-02-0	None	None
Nuisance Dust		15 mg/m ³	3 mg/m ³

COMMENTS: The ACGIH Threshold Limit Values (TLV) for nuisance (inert) dusts containing < 1% crystalline silica and no asbestos are: 10 mg/m³ inhalable particulates and 3 mg/m³ respirable particulate. The OSHA TLV is 15 mg/m³ total dust, 5 mg/m³ respirable fraction. Material exposure limits are for airborne 8-hour time-weighted averages and apply only to occupational exposures.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: May cause eye irritation. Keep away from children and pets.

POTENTIAL HEALTH EFFECTS

EYES: May cause slight, temporary irritation.

SKIN: Not known to be a skin irritant.

INGESTION: May cause nausea, vomiting along with mild irritation to the mouth, throat, esophagus and stomach.

INHALATION: High mist concentrations may cause mild respiratory tract irritation with coughing and nasal discharge.

ROUTES OF ENTRY: Ingestion, skin, inhalation, and eyes.

4. FIRST AID MEASURES

EYES: If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Non-Combustible

EXTINGUISHING MEDIA: Water spray, carbon dioxide, fine earth, dry chemical, or sand. Use extinguishing media appropriate for the surrounding fire.

EXPLOSION HAZARDS: Keep away from heat, sparks, or flames. Flood with water to cool containers.

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides (NO², NO_x), potassium and potassium containing compounds, chlorine and chlorine containing compounds (e.g. HCl gas, phosgene), ammonia, cyanuric acid, cyanic acid, and phosphorus and phosphorus containing compounds (e.g. phosphine).

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Sweep up spills. Use good housekeeping practices. Avoid breathing dust. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove to approved landfill.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Rinse all equipment after use. Collect all rinse water and apply to appropriate lawn/garden areas.

HANDLING: See label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid contact with skin, eyes, or clothing. Keep out of lakes, streams, or ponds. **KEEP OUT OF REACH OF CHILDREN.**

STORAGE: Store in cool, dry area in closed container or package. Keep containers closed at all times. Do not reuse containers. Store away from incompatible materials. Use with proper personal protective equipment. **KEEP OUT OF REACH OF CHILDREN.**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: If industrial hygiene surveys show that exposures exceed TLV's or other exposure limits, use a combination of local exhaust and general dilution/ventilation to control exposures.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: See label. Protective eye wear is typically not required for normal product use. Recommend employees wear chemical safety splash goggles in manufacturing situations where direct contact with the product may result.

SKIN: See label. No special skin protection is necessary under normal use conditions. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing. Wash thoroughly with soap and water after handling.

RESPIRATORY: When work conditions are such that aerosols or mists may be generated or present, use a suitable

NIOSH/MSHA approved respirator. Under normal conditions with adequate ventilation, no protection is necessary.

OTHER USE PRECAUTIONS: In manufacturing operations, eyewash and deluge shower recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Granular

ODOR: Slight ammonia odor.

APPEARANCE: Fine granules.

COLOR: Light pink.

MELTING POINT: 271°F - 631°F (133°F - 333°C)

SOLUBILITY IN WATER: 28 gms./100mls. water

SPECIFIC GRAVITY: 0.80

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Excessive heat, contact with strong alkalis, fuels, other combustible materials, strong oxidizing agents (permanganate, dichromate, chlorine, etc.), strong acids (e.g. sulfuric acid), strong bases (e.g. sodium hydroxide) reducing agents, methanamine, and many chlorine compounds (e.g. sodium hypochlorite, sodium chlorate, pool chemicals, household bleach and other cleaning products). Active metals such as aluminum and magnesium.

STABILITY: Stable

POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY:

IARC: No

NTP: No

OSHA: No

COMMENTS: There are limited data regarding this product. Exposure to this product can occur by eye and skin contact, ingestion, or inhalation of dusts. Eye contact may cause slight, temporary irritation. Skin contact may cause mild irritation. Ingestion may cause nausea, vomiting along with mild irritation to the mouth, throat, esophagus and stomach. High dust concentrations may cause mild respiratory tract irritation with coughing and nasal discharge.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Prevent large quantities from contacting vegetation or waterways. Keep animals away from large spills. This material is highly beneficial to plant life. There are no known adverse effects on aquatic life.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in normal waste disposal. Do not reuse empty container. See label for specific product disposal recommendations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not DOT regulated.

OTHER SHIPPING INFORMATION: The transportation information shown may not apply to all shipping situations. Consult 49 CFR, or appropriate Dangerous Goods Regulations for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping regulations.

15. REGULATORY INFORMATION

GENERAL COMMENTS: Contact local authorities for proper disposal of large quantities of unused product.

16. OTHER INFORMATION

REVISION SUMMARY New MSDS

NFPA CODES

HEALTH: 1 FIRE: 0 REACTIVITY: 0

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

ADDITIONAL MSDS INFORMATION: NFPA Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.

GENERAL STATEMENTS: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.