

271486 Part# 100204  
 MIRACLE-GRO, 4-LB. #100204  
 1455 SCOTTS CO.  
 Buyer: Bernard W. Aubuchon Jr.

## MATERIAL SAFETY DATA SHEET

Date-Issued: 10/15/2001  
 MSDS Ref. No: 100201  
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 Revision No: New MSDS

Miracle-Gro®ProSelect Water Soluble All Purpose Plant Food 20-20-20

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Miracle-Gro®ProSelect Water Soluble All Purpose Plant Food 20-20-20

#### MANUFACTURER

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

PN: S9994

#### 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

Chemical Name	CAS#	OSHA PEL	ACGIH TLV
Urea	57-13-6	None	None
Ammonium Phosphate	7722-76-1	None	None
Potassium Nitrate	7757-79-1	None	None
Boric Acid	10043-35-3	None	None
Copper Sulfate	7758-98-7	None	1 mg (Cu)/m3
Iron EDTA	15708-41-5	None	None
Manganese Sulfate	7785-87-7	5 mg (Mn)/m3	5 mg (Mn)/m3
Sodium Molybdate	7631-95-0	5 mg/m3	5 mg/m3
Zinc Sulfate	7733-02-0	None	None
Nuisance Dust		15 mg/m3	3 mg/m3

**COMMENTS:** This product is not considered to be hazardous in accordance with the OSHA Hazard Communication Standard, 29 CFR 1919.1200, Health Hazard. Thus, no Material Safety Data Sheet is required. This document serves as a guide for a range of Scotts/ORTHO product classes: LAWN FERTILIZER/COATED FERTILIZER (POLY-S®, OSMOCOTES®)/WATER SOLUBLE FERTILIZER-LIQUID PLANT FOOD/PLANT FOOD STICKS & PLANTING TABLETS, SOIL, POTTING MIX, LAWN TOPPING, HUMUS, COMPOST, MANURE, MULCH, BARK, PERLITE, STONE/ROCK, SEED PATCH, INSECT TRAPS, ATTRACTANTS, REPELLANTS, and other like products. See product label for ingredients and product-specific Consumer Services telephone numbers.

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.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** Follow cautionary product label information.

**General Considerations:** Avoid breathing dusts or mists by using adequate ventilation. Reduce material contact by wearing gloves when handling material for extended periods or by washing hands after use. Minimize material contact during application of lawn/garden products by wearing long pants, shoes, and socks. Avoid eye contact with any foreign body and do not ingest product. Keep out of reach of children.

#### POTENTIAL HEALTH EFFECTS

**EYES:** May cause eye irritation.

**SKIN:** May cause skin irritation.

**INGESTION:** If swallowed, product is considered practically non-toxic.

**INHALATION:** Inhalation of dusts or aerosols may aggravate asthma.

#### 4. FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. 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 glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never 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.

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#### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water fog or spray.

**EXPLOSION HAZARDS:** Explosive conditions may exist when a high airborne concentration of fertilizer or organic material occurs in an enclosed area.

**FIRE FIGHTING PROCEDURES:** Use self-contained air supply.

**HAZARDOUS DECOMPOSITION PRODUCTS:** In a fire, fertilizer products may produce ammonia and toxic oxides of carbon, nitrogen, potassium, phosphorous, and/or sulfur.

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#### 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Use good housekeeping practices. Sweep up spills. As a general practice, avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove to approved landfill. See label for specific disposal procedures.

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#### 7. HANDLING AND STORAGE

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

**STORAGE:** See label. KEEP OUT OF REACH OF CHILDREN. Avoid container breakage. Store in cool, dry area in closed container or package. Keep away from feed or foodstuffs.

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

##### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** See label. Protective eye wear is typically not required for normal product use.

**SKIN:** See label. No special protective clothing is necessary under normal use conditions. Gardening gloves are suggested for repeated handling of lawn care products. Fertilizer applicators should wear long-sleeved shirt, long pants, shoes and socks.

**RESPIRATORY:** See label. No special respiratory protection is required under normal use conditions. However, if operating conditions create high airborne concentrations of product, a dust mask, or other appropriate respiratory protection is recommended.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Fertilizers are typically off-white, tan, to light brown in color, or may contain blue/yellow/green dye coloration. Physical characteristics range from powders, granules (may contain prills), to coated beads, pellets, or sticks. Potting soils have an earth-tone, barks and mulches may be red-brown to dark brown, while manures are characteristically deep brown to black.

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#### 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** See label. Keep away from heat, sparks, and open flames.

**STABILITY:** Stable

**POLYMERIZATION:** Will not occur

**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitrates are incompatible with strong alkalies and reducing agents, active metals (such as aluminum and magnesium), ammonia, organic, and combustible materials. Urea is incompatible with strong oxidizers, alkalies, sodium nitrite, and chlorine compounds (including bleach and similar household cleaning products). See product label for ingredients and storage precautions.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**EYES:** Not an eye irritant (rabbit) for a similar formulation.

**DERMAL LD<sub>50</sub>:** >2,000 mg/kg (rabbit) for a similar formulation.

**ORAL LD<sub>50</sub>:** >5,000 mg/kg (rat) for a similar formulation.

**SKIN EFFECTS:** Primary Dermal Irritation (rabbit): Non-irritating and non-staining for a similar formulation.

### CARCINOGENICITY:

**CARCINOGENICITY COMMENTS:** IARC: No; NTP: No; OSHA: No

**GENERAL COMMENTS:** Results of acute toxicity studies conducted on a comparable formulation according to Consumer Product Safety Commission testing methods (Oral; 15003.(i), Dermal (1500.41), Eye Irritation (1500.42), and Primary Skin Irritation (1500.41) indicate this product is "Non-Hazardous" as defined by 29 CFR, Part 1910.1200.

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## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** See label. Keep out of lakes, streams, or ponds.

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not DOT regulated.

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

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## 15. REGULATORY INFORMATION

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

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## 16. OTHER INFORMATION

**REVISION SUMMARY** New MSDS

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