

4-12-8

WINTER FERTILIZER

WINTER FERTILIZER is designed for use in newly seeded areas, or for late season winterizing. **WINTER FERTILIZER** is a special application formula that has a high phosphorous content to toughen and promote growth, while extra potassium encourages proper stalk development. **WINTER FERTILIZER** has a low nitrogen content that assures safe application without burning at any time of the year.



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WINTER FERTILIZER

FOR USE BY:	FOR USE ON:	FEATURE-BENEFIT:
Airports Apartment Buildings Buildings Maint. Grounds Maint. Bus Lines DOC Daycares Hospitals Hotels/Motels Medical Buildings Military Nursing Homes Packaging Plants Parks and Rec. Processing Plants Restaurants Sanitation Dept. Schools Street Dept. WWTP	Athletic Fields Seeded Areas Golf Greens Nursery Stock Shrubs Ornamental Turf	High Phosphorus Promotes Root Growth High-Potency Blend Ideal For Late-Season Can Be Used All Season Can Apply Directly Can Be Injected Into Irrigation Systems

DIRECTIONS:

Lawn and Turf: Mix 1 gallon with sufficient water to cover 3,000 to 5,000 square feet.

For shrubs and nursery stock: Use 1 quart to 1 gallon according to the size of the plant.

For Trees: Use 1 gallon in 100 gallons and apply 4 gallons per inch of tree diameter.

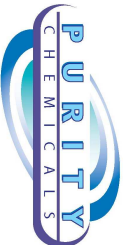
TECHNICAL DATA:

Appearance: Liquid
Fragrance: None
Concentrate: Yes
Soluble: Water Dilutable

CONTACT INFORMATION

OFFICE:
1-888-6PURITY (678-7489)
FAX
1-877-9PURITY (978-7489)
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MATERIAL SAFETY DATA SHEET



Total Solutions
P.O. Box 240014
Maitland, WI 53224

GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTRAC: (800) 424-9300

REVISION DATE: September 18, 2003
DATE OF ISSUE: September 18, 2003



I - Product Identification

Liquid Fertilizer 4-12-8

PRODUCT CODE: 0230
CHEMICAL FORMULATION: Liquid fertilizer.
NFPA HAZARD IDENTIFICATION SYSTEM
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

II - Hazardous Ingredients

Values reported as TIV A unless noted.

SUBSTANCE	APPROX		ACGH		EPA 40 CFR:		CAS #
	%	PEL	TIV	302	355	372	
Total Nitrogen	4.00	N/E	N/E	N	N	N	
Available Phosphate	12.0	N/E	N/E	N	N	N	
Soluble Potash	8.00	N/E	N/E	N	N	N	

Key: PEL - Permissible Exposure Limit
N/A - Not Applicable
TIV: Threshold Limit Value
N/D - Not Determined
C: Ceiling level
SHEL: Short Term Exposure Limit
N/E: Not Established
Y: Yes
N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4)
355: SARA Title III, List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355)
372: SARA Title III, List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): > 200
SPECIFIC GRAVITY (WATER = 1): 1.21
VAPOR PRESSURE (mm Hg): N/D
VOC CONTENT (% by weight): N/D
VAPOR DENSITY (AIR = 1): N/D
EVAPORATION RATE (WATER = 1): N/D
SOLUBILITY IN WATER: Soluble
pH: 4.00-5.00
APPEARANCE AND ODOR: Clear, green liquid, no odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): None
(TEST METHOD): N/A
FLAMMABLE LIMITS IN AIR (VOLUME %)
UPPER: N/A
LOWER: N/A
EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES: Fire may produce hazardous fumes. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARD: None

PRODUCT NAME: Liquid Fertilizer 4-12-8

PRODUCT CODE: 0230

V - Reactivity Data

STABILITY: Stable
INCOMPATIBILITY: Strong alkalis or acids and calcium.
CONDITIONS TO AVOID: None
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon.
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: None

VI - Health Hazard Data

ROUTES OF ENTRY: INHALATION: X
EYE CONTACT: X
SKIN CONTACT: X
INGESTION: X
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None
EFFECTS OF OVEREXPOSURE
IF IN EYES: Corrosive. May cause severe irritation, burns, tearing.
IF ON SKIN: Irritation with prolonged or repeated exposure.
IF SWALLOWED: May cause nausea, vomiting, diarrhea and gastric distress.
IF INHALED: Irritation of respiratory tract.
EMERGENCY AND FIRST AID PROCEDURES
IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.
IF ON SKIN: Remove contaminated clothing and launder before re-use. Wash with soap and water. If irritation persists, obtain medical attention.
IF SWALLOWED: Contact physician or poison control center immediately. Give affected person large amounts of water. Do not induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.
IF INHALED: Remove person to fresh air. If breathing has stopped, administer artificial respiration.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area. Soak up spilled material with inert absorbent material or flush away with water.
WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. Do not breathe mists. If mists are generated wear a NIOSH approved respirator, following manufacturer's recommendations.
VENTILATION: LOCAL: Not required
MECHANICAL: Not required
PROTECTIVE CLOVES: Chemical resistant
EYE PROTECTION: Safety glasses or chemical goggles
OTHER PROTECTIVE EQUIPMENT: Eye wash station.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place. Keep container tightly closed when not in use.
OTHER PRECAUTIONS: Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: None
DOT CLASS: None
DOT ID NUMBER: None
DOT PACKING GROUP: None
The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of transport. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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