

NFPA HAZARD RATING

U.S. TRANSPORT SUMMARY

0	Least		
1	Slight	2	Health
2	Moderate	0	Flammability
3	High	0	Reactivity
4	Severe		

Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information.

SECTION 1: IDENTIFICATION

Product Name: Dry Man 20 EPA Registration #: Exempt

Product ID/Unity #: 10123675, 10127203, 10136320

Common Name: Soluble fertilizer mixture

Chemical Description: Macro and micro nutrient soluble fertilizer

Recommended Uses: Fertilizer product – See product label for full directions for use. **Restrictions for Use:** See product label for any potential restrictions on use.

Manufactured For:

MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)

WINFIELD SOLUTIONS, LLC

P. O. Box 64589 Non-Emergency Business Inquiries: 1-855-494-6343 St. Paul, MN 55164-0589 Mon – Fri 8am – 5pm (Central Standard Time)

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:

CHEMTREC 1-800-424-9300 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Dark blue powder microprill and crystalline mix. Causes eye irritation. Harmful if inhaled.

POTENTIAL HEALTH EFFECTS:

Eyes: Causes moderate but reversible eye irritation.

Skin: May cause mild skin irritation. **Inhalation**: Harmful if inhaled.

Ingestion: May cause gastric discomfort.

Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to dust.

Chronic Health Effects: Repeated or prolonged inhalation of dust may affect the central nervous system and lungs.

Carcinogenicity NTP: Not listed IARC: Not listed OSHA: Not listed

OSHA HCS 2012 CLASSIFICATION: Eye Irritation Category 2B; Acute Inhalation Category 4; Specific Target Organ Toxicity –

Repeated Exposure Category 2

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

Causes eye irritation. Harmful if inhaled.

May cause damage to central nervous system and lungs through prolonged or

repeated inhalation.



Percent of product with unknown toxicity: 0.1%

PRECAUTIONARY STATEMENTS:

Prevention: Wash hands thoroughly after handling. Do not breathe dust. Use only outdoors or in a well-ventilated area.

Response: If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do.

> Continue rinsing. If eye irritation persists: Get medical attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) or doctor for treatment advice if

you feel unwell. Get medical attention if you feel unwell.

Storage: See Section 7 for storage information.

Disposal: Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS				
Ingredient	% (wt)	CAS Reg. #		
Manganese sulfate	64.0 - 66.0%	7722-76-1		
Citric acid	15.0 – 17.0%	77-92-9		
Potassium citrate	15.0 – 17.0%	866-84-2		
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR				

1910.1200(i).

See Section 8 for exposure limits.

SECTION 4: FIRST AID MEASURES

Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention Inhalation:

if irritation occurs.

Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless Ingestion:

instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious

Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove Eyes:

contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.

Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap Skin:

and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Chemical type foam, Carbon dioxide, Dry chemical, Water fog

Unsuitable Extinguishing Media: Water jet

Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep

Hazardous Combustion Products: Carbon oxides, Sulfur oxides, some metallic oxides Unusual Fire and Explosion Hazards: During a fire, irritating/toxic gases may be generated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Keep spilled product and any rinse water from entering sewers or waterways.

Methods for Containment: Contain spilled product by sweeping up if a small spill or by diking area with sand or earth if a large spill.

Methods for Clean-up: Avoid dust formation. Vacuum, scoop or sweep up material and place in a container for disposal. If product is uncontaminated, spilled material may be applied at the rate recommended on the label. Never return spills to original containers for re-use. After removal of spilled product, flush contaminated area thoroughly with water.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: Avoid breathing dust. Use only outdoors or in a well-ventilated area. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage: Store in a cool, dry area away from children, feed and food products. Store away from incompatible materials. Protect packaging from physical damage. Protect from exposure to fire conditions.

Minimum Storage Temperature: Not applicable

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
Exposure Guidelines				
Component:	OSHA PEL	ACGIH TLV	NIOSH REL	
Manganese sulfate (listed as Manganese inorganic compounds)	5 mg/m3 CEIL	0.2 mg/m3 TWA	1 mg/m3 TWA 3 mg/m3 ST	
Particulates not otherwise classified	15 mg/m3 (total dust) 5 mg/m3 (respirable)			

Respiratory Protection: If dust concentration exceeds permissible levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.

Engineering Controls: Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne

concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is

preferred.

Protective Gloves: Wear chemically protective gloves to prevent exposure to skin.

Eye Protection: Wear chemical goggles or safety glasses and full face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily available to the work area.

Other Protective Clothing or Equipment: Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact.

Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTII	ES
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Physical State: Solid Specific Gravity ($H_2O=1$): <1.0

Vapor Pressure (mm Hg): Not applicable Density (lbs/gallon): Not applicable Melting Point/Freezing Point: Vapor Density (Air=1): Not applicable Not determined Solubility in Water (wt %): Boiling Point/Range: >18% Not determined Viscosity: Not applicable pH (1% solution): Not determined Appearance and odor: Dark blue powder crystals and Flash Point: Not applicable

microprills

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known

Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Excessive heat, dust generation and damp areas **Incompatible Materials:** Oxidizing agents, strong acids and bases.

Hazardous Decomposition Products: When exposed to excessive heat, Carbon oxides, Sulfur oxides, and some metallic

oxides may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects: Exposure to dust is expected to cause moderate but reversible eye irritation.

Skin Effects: Mild skin irritation is possible.

Acute Inhalation Effects: Harmful if inhaled. Estimated LC50 = 4 mg/L

Acute Oral Effects: Estimated LD50 = 2,717 mg/kg
Specific Target Organ Central nervous system, lungs

Toxicity:

CHRONIC TOXICITY

Chronic Effects: Repeated or prolonged inhalation of dust may affect the central nervous system and lungs.

Carcinogenicity: No component is anticipated to have carcinogenic effects.

Mutagenicity: No component is anticipated to have mutagenic effects.

Teratogenicity: No component is anticipated to have teratogenic effects.

Reproductive Toxicity: No component is anticipated to have effects on the reproductive system.

POTENTIAL HEALTH EFFECTS:

Eyes: Causes moderate but reversible eye irritation.

Skin: May cause mild skin irritation. **Inhalation:** Harmful if inhaled.

Ingestion: May cause gastric discomfort.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Not determined

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity:
Aquatic Invertebrate Acute Toxicity:
Aquatic Plant Toxicity:
Bird Acute and Prolonged Toxicity:
Honeybee Toxicity:
Not determined
Not determined
Not determined

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: Not determined Persistence and degradability: Not determined Bioaccumulative Potential: Not determined Other adverse effects: Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.

Container: Ensure all product has been emptied from the sack/bag. Dispose of emptied container in accordance with applicable Federal, state and local laws and regulations.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification

and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION		
DOT: (Ground)	This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.	
IMDG: (Sea)	Not determined	
IATA: (Air)	Not determined	
TDG: (Canada)	Not determined	

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: All components are listed on the TSCA inventory.

SARA Title III Information:

Section 302 - Extremely hazardous substances: None listed

Section 311/312 – Hazard Categories: Immediate (Acute), Delayed (Chronic)

Section 313 - The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund

Amendments and Reauthorization Act of 1986 and 40 CFR 372:

Manganese compounds (66.0% maximum)

CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

Manganese compounds are considered to be a CERCLA hazardous substance though no RQ is established.

California Proposition 65: This product does not contain chemicals known to the state of California to cause cancer and/or reproductive harm.

U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

Chemical NameCAS #State(s)Manganese sulfate10034-96-5MN, NJ, PA

Canadian Domestic Substances List: Not determined

WHMIS Classification: This product is not registered for use in Canada. WHMIS classification is not determined.

SECTION 16: OTHER

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Sections Revised: All