



PFI 20-20-20 MP

SAFETY DATA SHEET

SDS#: 1003

Review/Revision Date: 07/28/14

SECTION I - General Information And Chemical Product Identification

Trade Name: **PFI 20-20-20 MP**

CAS #: N/A

Chemical Name: **Dry Fertilizer 20-20-20**

Synonyms:

D.O.T. Shipping Name: **Fertilizing Compound, NOI, Not regulated by DOT**

Application/Uses: **Fertilizing Compound**

Distributor Information: **Plant Foods, Inc. 772-567-5741**
P.O. Box 1089 (32961 – 1089)
5051 41st Street
Vero Beach, Florida 32967

SECTION II - Hazard(s) Identification

Route(s) of Entry: **Ingestion and Dermal**

Signal Word: **WARNING**

Precautionary Statements: **May be harmful if swallowed or inhaled. May cause eye/skin irritation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Do not ingest. Wash thoroughly after handling. Keep out of reach of children.**

Potential Health Effects: **Eye contact:** Contact with eyes may cause irritation.
Skin contact: May cause skin irritation in susceptible persons.
Ingestion: Possible gastrointestinal tract irritation.
Inhalation: May cause irritation of respiratory tract.



Aggravated Medical Conditions: **Inhalation of dust may aggravate asthma. Pre-existing dermatitis or sores**

Principle routes of exposure: **Skin, Inhalation, Ingestion, Eyes**

Target organ effects: **Irritation.**

SECTION III - Composition/information On Ingredients

Ingredients	CAS-No	Weight %
Potassium Nitrate, KN03	7757-79-1	30-60
Di ammonium phosphate, (NH4)2HP04	7783-28-0	15-40
Urea (Reach 01-21 19463277-33)	57-13-6	10-30
Mono potassium phosphite M.K.P.	7778-77-0	1-5
Iron EDTA, Fe-EDTA	15708-41-5	0.1-1
Manganese-EDTA	15375-84-5	0.1-1
Zinc-EDTA, Zn-EDTA	14025-21-9	0.1-1
Magnesium sulphate anhydrous, MaS04	7487-88-9	0.5-1.5
Copper-EDTA, Cu-EDTA	14025-15-1	0.1-1
Ammonium Heptamolybdate Tetrahydrate, H24Mo7N6O24 ·4H2O	12054-85-2	<0.1
Boric Acid, H3B03	10043-35-3	<0.1

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SECTION IV - First Aid Information**Ingestion:**

Call a physician or Poison Control Centre immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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.

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.

SECTION V - Fire And Explosion Data

Flammable properties: Decomposes on heating.

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam.

Explosion potential: Dust at sufficient concentrations may form explosive mixtures with air.

Hazardous combustion products: Thermal decomposition can lead to release of irritating gases and vapors.

Firefighting procedures: Select appropriate method to surround and extinguish fire.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Section VI- Accidental Release Measures**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Personal precautions: Avoid contact with skin, eyes and clothing

Environmental precautions: Prevent product from entering drains.

Methods for containment: Vacuum or sweep up material and place in a disposal container.

Methods for cleaning up: If materials uncontaminated, collect and reuse as recommended for product. If material's contaminated, put in appropriate container and dispose. Flush with water.

Section VII- Handling and Storage

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams or ponds.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Do not contaminate water, food, or feed by storage or disposal.

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Section VIII - Exposure Control and Personal Protection

Ingredients:	ACGIH:	OSHA:
Iron EDTA, Fe-EDTA	1 malm ³ TWA	Not Listed
Ammonium Heptamolybdate Tetrahydrate, H ₂₄ Mo ₇ N ₆ O ₂₄ · 4H ₂ O	0.5 mg/m ³ TWA 10 mg/m ³ TWA 3 malm ³ TWA	15 mg/m ³ TWA total 5 mg/m ³ TWA
Urea (Reach 012119463277-33)	Not Listed	Not Listed
Potassium Nitrate, KN ₀₃	10 mg m ³ (8-hr TWA) 3 mg m ³ (8-hr TWA)	15 mg/m ³ (8-hr TWA) 5 mg m ³ (8-hr TWA)
Boric Acid, H3803	2 mg/m ³ TWA	Not Listed
Magnesium sulphate anhydrous, MgSO ₄	Not Listed	Not Listed
Mono potassium phosphate, M.K.P.	Not Listed	Not Listed
Di ammonium phosphate, (NH ₄) ₂ HP ₀₄	Not Listed	Not Listed
Manganese-EDTA	Not Listed	Not Listed
Copper-EDTA, Cu-EDTA	Not Listed	Not Listed
Zinc-EDTA Zn-EDTA	Not Listed	Not Listed

Skin Protection: No special protective clothing is required under normal workplace conditions. If skin irritation occurs, use natural rubber gloves, durable cloth or impervious rubber gloves if contact with product is possible. After using product, remove clothing and wash before reuse.

Respiratory Protection: If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection, e.g., NIOSH/MSHA approved respirator for dusts, mists, and fumes.

Eye Protection: Eye face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses with side shields or goggles.

Hygienic Practices: Wash hands before breaks and immediately after handling the product

Section IX - Physical and Chemical Properties

Physical State: Solid
Bulk Density: 55-65 lbs./cu.ft.
Odor: Fertilizer
Color: Blue
Appearance: Crystals
Solubility: Highly soluble (>80%)

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Section X - Stability and Reactivity

Chemically Stable:	Yes.
Conditions to avoid:	Extreme heat. Contact with strong alkalis, oxidizers, and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminum, magnesium, and chlorine compounds.
Materials to avoid:	Strong acids, bases, oxidizers, and reducing agents. Avoid contact with other chemicals. Fuels. Heavy metal salts.
Hazardous decomposition products:	Combustion may produce irritating gases and vapors. Toxic metal oxides may be produced.
Possibility of hazardous reactions:	Poses little or no immediate hazard.

Section XI - Toxicological Information**Acute toxicity:****LD50/oral:** No information available**LD50/dermal:** No information available**LC50/inhalation:** No information available**Eye effects:** Contact with eyes may cause irritation**Skin effects:** May cause skin irritation in susceptible persons**Sensitization:** No information available**Carcinogenic effects:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Ingredients	NTP:	ARC:	OSHA:
Iron EDTA, Fe-EDTA	Not listed	Not listed	Not listed
Ammonium Heptamolybdate Tetrahydrate, H ₂₄ Mo ₇ N ₆ O ₂₄ · 4H ₂ O	Not listed	Not listed	Not listed
Urea (Reach 01-2119463277-33)	Not listed	Not listed	Not listed
Potassium Nitrate, KN ₃	Not listed	Not listed	Not listed
Boric Acid, H ₃ B ₃ O ₃	Not listed	Not listed	Not listed
Magnesium sulphate anhydrous, Mg ₈ O ₄	Not listed	Not listed	Not listed
Mono potassium phosphate, M.K.P.	Not listed	Not listed	Not listed
Di ammonium phosphate, (NH ₄) ₂ H ₂ P ₄ O ₄	Not listed	Not listed	Not listed
Manganese-EDTA	Not listed	Not listed	Not listed
Copper-EDTA, Cu-EDTA	Not listed	Not listed	Not listed
Zinc-EDTA, Zn-EDTA	Not listed	Not listed	Not listed

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.**Inhalation:** May cause irritation of respiratory tract.**Target organ effects:** Irritation.

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Section XII- Ecological Information

Eco toxicity effects:	May be toxic to aquatic organisms.
Persistence and degradability:	Degrades slowly.
Bio accumulative potential:	Not determined
Mobility:	Water contaminating.
Aquatic toxicity:	No ecological information is known on the product.
Additional ecological information:	Contains Molybdenum (Mo). The application of materials containing Molybdenum (Mo) may result in forage crops containing levels of Molybdenum (Mo) which are toxic to ruminant animals. Do not contaminate water sources when disposing of equipment washwaters.

SECTION XIII - Disposal Considerations**Waste Disposal Methods:**

If empty, do not reuse container. Do not place product down any indoor or outdoor drain. Contaminated product should be disposed of in an approved landfill disposal facility in accordance with applicable Federal/ Provincial, and/or local regulations.

Section XIV - Transport Information

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT (Land) Not DOT regulated
DOT (AIR) Not DOT regulated
DOT (Vessel) Not DOT regulated

Section XV - Regulatory Information

Ingredients	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Iron EDTA, Fe-EDTA	15708-41-5	Not Listed	Not Listed
Ammonium Heptamolybdate Tetrahydrate, H ₂₄ Mo ₇ N ₆ O ₂₄ · 4H ₂ O	12054-85-2	Not Listed	Not Listed
Urea (Reach 01-2119463277-33)	57-13-6	Not Listed	Not Listed
Potassium Nitrate, KN ₃	7757-79-1	Not Listed	Not Listed
Boric Acid, H ₃ B ₃ O ₃	10043-35-3	Not Listed	Not Listed
Magnesium sulphate anhydrous, MgSO ₄	7487-88-9	Not Listed	Not Listed
Mono potassium phosphate, M.K.P.	7778-77-0	Not Listed	Not Listed
Di ammonium phosphate NH ₄ I ₂ HP ₀₄	7783-28-0	Not Listed	Not Listed
Manganese-EDTA	15375-84-5	Not Listed	Not Listed
Copper-EDTA, Cu-EDTA	14025-15-1	Not Listed	Not Listed
Zinc-EDTA, Zn-EDTA	14025-21-9	Not Listed	Not Listed

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SECTION XVI- Other Information

Health: 2	Flammability: 0	Reactivity: 1
Health: 2	Flammability: 0	Reactivity: 1

Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe

General comment: 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.

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Material Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Material Safety Data Sheet available to your employees.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This Safety Data Sheet was prepared to comply with OSHA Hazard Communication standard. (29 CFR 1910.1200). This supersedes any previous information. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Plant Foods, Inc as to the effects of such use or the results to be obtained, nor does Plant Foods, Inc. assume any liability arising out of use, by others, of the products referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist because of applicable laws or government regulations.

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