



MATERIAL SAFETY DATA SHEET

Date stamp: 01-Aug-2007

MSDS Ref. No.: 99150

Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Peters Excel® 21-5-20 Multi-Purpose
Description: Water Soluble Fertilizer

Company
The Scotts Company LLC
14111 Scottslawn Road
Marysville, OH 43041

24-HOUR EMERGENCY TELEPHONE NUMBERS:
CHEMTREC (U.S.): 1-800-424-9300
CHEMTREC (International): 1-703-527-3887
Non-Emergency Calls: 1-937-644-0011

Formula No.: S12885
Product Number(s): 99150

2. HAZARDS IDENTIFICATION

Labelling

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 or spray mist. Do not ingest. Wash thoroughly after handling. Keep away from children.

Potential health effects

Eye contact: Contact with eyes may cause irritation.
Skin contact: May cause skin irritation in susceptible persons.
Ingestion: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Inhalation: Inhalation of aerosols may cause irritation to mucous membranes.

Aggravated Medical Conditions:

Pre-existing dermatitis or sores. Inhalation may aggravate asthma.

Principle routes of exposure:

Skin, Inhalation

Target organ effects:

Irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Manganese sulphate, MnSO4	7785-87-7	0.1-1
Ammonium Heptamolybdate Tetrahydrate	12054-85-2	<0.1
Zinc sulphate mono hydrate, ZnSO4+1H2O	7446-19-7	0.1-1
Copper sulphate, CuSO4	7758-98-7	<0.1
Ureaphosphate	4861-19-2	5-10
Ammonium nitrate, NH4NO3	6484-52-2	30-60
Potassium nitrate, KNO3	7757-79-1	30-60
Ammonium phosphate	7722-76-1	5-10
Iron EDTA	15708-41-5	0.1-1
Boric acid, H3BO3	10043-35-3	0.1-1

4. FIRST AID MEASURES

Eye contact: 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 eye. Call a poison control center or doctor for treatment advice

Skin contact: 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: 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 do so by a 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

5. FIRE-FIGHTING MEASURES

Flammable properties:	Oxidizer. Contact with combustible material may cause fire.
Suitable extinguishing media:	Water spray, carbon dioxide, dry chemical, chemical foam.
Specific hazards:	Oxidizing properties.
Fire fighting procedures:	Select appropriate method to surround and extinguish fire. Use water spray to cool fire exposed surfaces.
Special protective equipment for firefighters:	In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid dust formation.
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:	Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling: Avoid container breakage

Storage: Keep containers tightly closed in a cool, well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:
Ureaphosphate	Not Listed	Not Listed
Ammonium nitrate, NH ₄ NO ₃	Not Listed	Not Listed
Potassium nitrate, KNO ₃	Not Listed	Not Listed
Ammonium phosphate	Not Listed	Not Listed
Zinc sulphate mono hydrate, ZnSO ₄ +1H ₂ O	Not Listed	Not Listed
Copper sulphate, CuSO ₄	Not Listed	Not Listed
Ammonium Heptamolybdate Tetrahydrate	0.5 mg/m ³ TWA 10 mg/m ³ TWA 3 mg/m ³ TWA	15 mg/m ³ TWA total 5 mg/m ³ TWA
Boric acid, H ₃ BO ₃	2 mg/m ³ TWA	Not Listed
Iron EDTA	1 mg/m ³ TWA	Not Listed
Manganese sulphate, MnSO ₄	0.2 mg/m ³ TWA	Not Listed

Engineering controls Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Personal Protective Equipment

Eye/face protection:	Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses with side shields or goggles.
Skin and body protection:	Wear suitable protective clothing if contact is anticipated during manufacturing. Impervious gloves.
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

General hygiene considerations: Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Color:	Blue
Bulk density:	55-75 lbs/cu.ft.	Appearance:	Prills, Crystals
Odor:	Fertilizer	Solubility:	Highly soluble (>80%)

10. STABILITY AND REACTIVITY

Chemically Stable:	Stable under normal conditions.
Conditions to avoid:	Extreme heat. Dust may form explosive mixture in air.
Materials to avoid:	Strong oxidising agents.

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion may produce irritating gases and vapors.
Possibility of hazardous reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

LD50/oral: No information available
LD50/dermal: No information available
LC50/inhalation: No information available
Eye effects: May cause eye irritation with susceptible persons
Skin effects: May cause skin irritation in susceptible persons
Sensitization: May cause sensitization of susceptible persons

Chronic toxicity

Carcinogenic effects: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components	NTP:	IARC:	OSHA:
Ureaphosphate	Not listed	Not listed	Not listed
Ammonium nitrate, NH ₄ NO ₃	Not listed	Not listed	Not listed
Potassium nitrate, KNO ₃	Not listed	Not listed	Not listed
Ammonium phosphate	Not listed	Not listed	Not listed
Zinc sulphate mono hydrate, ZnSO ₄ +1H ₂ O	Not listed	Not listed	Not listed
Copper sulphate, CuSO ₄	Not listed	Not listed	Not listed
Ammonium Heptamolybdate Tetrahydrate	Not listed	Not listed	Not listed
Boric acid, H ₃ BO ₃	Not listed	Not listed	Not listed
Iron EDTA	Not listed	Not listed	Not listed
Manganese sulphate, MnSO ₄	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.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: May be toxic to aquatic organisms.
Persistence and degradability: Degrades slowly.
Bioaccumulative potential: No information available.
Mobility: Water contaminating.
Aquatic toxicity: May be toxic to aquatic organisms.
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 by cleaning of equipment or disposal of wastes. Do not apply directly to lakes, streams, or ponds.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with local regulations
Contaminated packaging: In accordance with local and national regulations.

14. 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

Proper shipping name: UN1477, Nitrates, inorganic, n.o.s, 5.1, PGIII

15. REGULATORY INFORMATION

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Ureaphosphate	4861-19-2	Not Listed	Not Listed
Ammonium nitrate, NH ₄ NO ₃	6484-52-2	Not Listed	Not Listed
Potassium nitrate, KNO ₃	7757-79-1	Not Listed	Not Listed
Ammonium phosphate	7722-76-1	Not Listed	Not Listed
Zinc sulphate mono hydrate, ZnSO ₄ +1H ₂ O	7446-19-7	Not Listed	Not Listed
Copper sulphate, CuSO ₄	7758-98-7	10 lb final RQ 4.54 kg final RQ	Not Listed
Ammonium Heptamolybdate Tetrahydrate	12054-85-2	Not Listed	Not Listed
Boric acid, H ₃ BO ₃	10043-35-3	Not Listed	Not Listed
Iron EDTA	15708-41-5	Not Listed	Not Listed
Manganese sulphate, MnSO ₄	7785-87-7	Not Listed	Not Listed

General Information

Local authorities should be advised if significant spillages cannot be contained.

16. OTHER INFORMATION

NFPA: Health: 2 Flammability: 0 Reactivity: 1 Special Hazards: Oxy
HMIS: 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.

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