



# MATERIAL SAFETY DATA SHEET

Date stamp: 12-Jul-2007

MSDS Ref. No.: 99293

Revision Number: 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Peters Professional® 20-20-20 General 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.:** S12901  
**Product Number(s):** 99293

## 2. HAZARDS IDENTIFICATION

### Classification

**WHMIS hazard class:** D2B

### Labelling

**Signal word:** CAUTION  
**Label Symbols:** T - Toxic.

### Precautionary Statements

Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling. Avoid breathing dust. 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/mist may aggravate asthma. Pre-existing dermatitis or sores.  
**Principle routes of exposure:** Skin. Inhalation. Ingestion. Eyes.  
**Target organ effects:** Irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
di ammonium phosphate, (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	7783-28-0	15-40
Urea	57-13-6	10-30
mono potassium phosphate, M.K.P.	7778-77-0	1-5
Potassium nitrate, KNO <sub>3</sub>	7757-79-1	30-60

## 4. FIRST AID MEASURES

**Eye contact:** 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 contact:** 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:** 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.

**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.

## 5. FIRE-FIGHTING MEASURES

**Flammable properties:** Decomposes on heating.

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**5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media:</b>	Water spray, carbon dioxide, dry chemical, chemical foam
<b>Explosion potential:</b>	Dust at sufficient concentrations may form explosive mixtures with air.
<b>Hazardous combustion products:</b>	Thermal decomposition can lead to release of irritating gases and vapours..
<b>Fire fighting procedures:</b>	Select appropriate method to surround and extinguish fire
<b>Special protective equipment for firefighters:</b>	In the event of fire, wear self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions:</b>	Avoid contact with skin, eyes and clothing.
<b>Environmental precautions:</b>	Prevent product from entering drains.
<b>Methods for containment:</b>	Vacuum or sweep up material and place in a disposal container.
<b>Methods for cleaning up:</b>	If material is uncontaminated, collect and reuse as recommended for product. If material is contaminated, put in appropriate container and dispose. Flush with water.

**7. 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.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Components	ACGIH:	OSHA:
Urea	Not Listed	Not Listed
di ammonium phosphate, (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	Not Listed	Not Listed
Potassium nitrate, KNO <sub>3</sub>	Not Listed	Not Listed
mono potassium phosphate, M.K.P.	Not Listed	Not Listed

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

**Personal Protective Equipment**

<b>Eye/face protection:</b>	Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses with side shields or goggles.
<b>Skin and body protection:</b>	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.
<b>Respiratory protection:</b>	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**

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

**10. STABILITY AND REACTIVITY**

<b>Chemically Stable:</b>	Yes.
<b>Conditions to avoid:</b>	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.
<b>Materials to avoid:</b>	Strong acids, bases, oxidizers, and reducing agents. Avoid contact with other chemicals . Fuels. Heavy metal salts.
<b>Hazardous decomposition products:</b>	Combustion may produce irritating gases and vapors. Toxic metal oxides may be produced.
<b>Possibility of hazardous reactions:</b>	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:** Contact with eyes may cause irritation.  
**Skin effects:** May cause skin irritation in susceptible persons.

### Component information

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
di ammonium phosphate, (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	6500 mg/kg Rat	7950 mg/kg Rabbit	No information available
Urea	8471 mg/kg Rat	8200 mg/kg Rat	No information available
mono potassium phosphate, M.K.P.	No information available	4640 mg/kg Rabbit	No information available
Potassium nitrate, KNO <sub>3</sub>	3015 mg/kg Rat	No information available	No information available

### Chronic toxicity

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

Components	NTP:	IARC:	OSHA:
Urea	Not listed	Not listed	Not listed
di ammonium phosphate, (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	Not listed	Not listed	Not listed
Potassium nitrate, KNO <sub>3</sub>	Not listed	Not listed	Not listed
mono potassium phosphate, M.K.P.	Not listed	Not listed	Not listed

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea .  
**Inhalation:** May cause irritation of respiratory tract.  
**Sensitization:** No information available.  
**Target organ effects:** Irritation

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity effects:** May be toxic to aquatic organisms.  
**Persistence and degradability:** Degrades slowly.  
**Bioaccumulative 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.

## 13. 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.

## 14. TRANSPORT INFORMATION

### DOT

**Proper shipping name:** Not DOT regulated.

### TDG

**Proper shipping name:** Not regulated.

## 15. REGULATORY INFORMATION

**15. REGULATORY INFORMATION**

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Urea	57-13-6	Not Listed	Not Listed
di ammonium phosphate, (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	7783-28-0	Not Listed	Not Listed
Potassium nitrate, KNO <sub>3</sub>	7757-79-1	Not Listed	Not Listed
mono potassium phosphate, M.K.P.	7778-77-0	Not Listed	Not Listed

**General Information**

Contact local authorities for disposal of large quantities of product.

**16. OTHER INFORMATION**

**NFPA:** Health: 2 Flammability: 0 Reactivity: 1

**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.

**Prepared by:** Regulatory Affairs Department.

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