# MATERIAL SAFETY DATA SHEET



91010

# Peters Professional® Soluble Plant Food 20-20-20 General Purpose

Scotts-Sierra Horticultural Products Co.
The Scotts Company
14111 Scottslawn Road
Marysville, Ohio 43041

In Case of Emergency call: 1-937-644-0011 (USA) For non-Emergency calls: 1-937-644-0011 (USA)

# I. MATERIAL IDENTIFICATION

NFPA Hazard Ratings Peters Professional® Soluble Plant Food 0 Least Product Name: 1 Slight Health 2 Moderate Analysis: 20-20-20 General Purpose Flammability 0 3 High Stock Number: 91010 Reactivity 1 4 Severe

#### II. HAZARDOUS INGREDIENTS

		OSHA	ACGIH	
MATERIAL	CAS#	PEL	TLV	
Potassium Nitrate	7757-79-1	None	None	
(containing up to 5% Sodium Nitrate)	7631-99-4	None	None	
Monoammonium Phosphate	7722-76-1	None	None	
Urea	57-13-6	None	None	
Magnesium Sulfate	7487-88-9	None	None	
Boric Acid	10043-35-3	None	None	
Copper EDTA	14025-15-1	None	None	
Ammonium Molybdate	13106-76-8	5 mg(Mo)/m3	5 mg(Mo)/m3	
Manganese EDTA	15375-84-5	None	None	
Zinc EDTA	14025-21-9	None	None	
Iron EDTA	15708-41-5	None	None	

The ACGIH Threshold Limit Values for nuisance (inert) dusts containing <1% crystalline silica and no asbestos are: 10 mg/m3 total, 5 mg/m3 respirable.

# III. FIRST AID PROCEDURES

Eyes: If in eyes, flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists. Ingestion: Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink 1 to 2

glasses of water, then call physician or poison control center.

Skin: Wash with plenty of soap and water.

Inhalation: Remove to fresh air. Treat symptomatically.

### IV. HEALTH HAZARD INFORMATION

#### Summary of Risks

Prolonged or repeated direct contact with fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat, and lungs. Prolonged exposure may cause weakness, depression, headache, mental impairment, anemia, methemoglobinemia, and kidney injury. Ingestion of product can cause severe gastrointestinal irritation, muscular weakness, and blue-tinged skin (cyanosis).

Tumorigenic, mutagenic, and reproductive effects of potassium nitrate and urea in laboratory animals are reported in the NIOSH Registry of Toxic Effects

Urea is moderately toxic by ingestion. It may cause headache, nausea, and vomiting. Other possible effects are disorientation, nervousness, hypertension, hypothermia, and cardiac effects.

Blue dye may cause temporary staining of skin.

Medical conditions which may Skin abrasions and sores.

be aggravated by contact: Inhalation of dust may aggravate asthma.

<u>Target Organs:</u> Skin, eyes, respiratory tract, gastrointestinal tract, and central nervous system.

Primary Entry Route(s): Ingestion, inhalation.

<u>Chronic Effect(s):</u> A study of 67 workers in an environment with high airborne concentrations of urea

found a high incidence of protein metabolism disturbances, moderate emphysema, and

chronic weight loss.

Acute Effect(s): Excessive inhalation of dust may cause irritation and coughing. Prolonged

skin contact with product may cause mild irritation.

<u>Ingredients Listed as a Carcinogen</u>

IARC Monographs: No NTP: No OSHA: No

#### V. PERSONAL PROTECTION AND PRECAUTIONS

Personal protective equipment:

Goggles: None required for routine use as fertilizer. High airborne dust levels or mists of product dissolved in

liquid may be irritating; use chemical goggles.

Gloves: None required for normal use. If prolonged or repeated use irritates skin, use natural rubber

gloves.

Respirator: If airborne dust levels are high or irritation occurs, use NIOSH/MSHA approved respirator for dusts,

mists, and fumes to reduce exposures to acceptable levels.

**Workplace Considerations** 

Ventilation: Ventilation and personal protection are recommended whenever dust levels are high or

product does not remain intact.

Safety Stations: Running water should be available in case material gets in eyes.

#### VI. PHYSICAL HAZARD INFORMATION

Flammable Limits (% in Air): N/A Color: Aqua-blue powder
Extinguishing Media: Water Odor: Slight yeasty odor
Auto Ignition Temperature: N/A Boiling Point: Decomposes on heating

Flash Point (method): Decomposes on heating Solubility in H<sub>2</sub>0 3.5 lbs/gal

Specific Gravity: 45.1-47.2 lbs/ft3 Vapor Pressure: Not Known

Evaporation Rate: N/A

pH: 5.4 (10% solution)

Product name: PETERS PROFESSIONAL® SOLUBLE PLANT FOOD (St # 91010)

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Reactivity

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Extreme heat. Contact with strong alkalies, oxidizers, and reducing agents. Contact with

fuels and other organic or combustible materials. Active metals such as aluminum and

magnesium. Strong alkalies and reducing agents. Chlorine compounds.

Hazardous Decomposition

Products:

In a fire, may produce oxides of nitrogen, potassium, carbon, and sulfur, as well as

ammonia, biuret and cyanuric acid.

Chemical Incompatibilities: Nitrates are incompatible with strong alkalies and reducing agents, active metals (such as

aluminum and magnesium), ammonia, organic, and combustible materials.

Monammonium phosphate is incompatible with sodium hypochlorite.

Urea is incompatible with strong oxidizers, alkalies, sodium nitrate, and many chlorine

compounds (including bleach and other household cleaning products).

Unusual Fire, Explosion

and Reactivity Hazards:

This product is comprised of materials which are oxidizers in their pure, unmixed forms. It will not burn but can provide oxygen for existing fires and cause combustible materials

to ignite explosively.

Material decomposes on heating to emit ammonia and toxic oxides of nitrogen, sulfur,

carbon, and potassium as well as biuret and cyanuric acid.

<u>In Case of Fire:</u> Evacuate area. Flood with water to cool containers. Apply water from a safe distance to

avoid splattering of molten material. Wear self-contained breathing apparatus to fight

large fires.

## VII. REGULATORY INFORMATION

DOT Classification: Not DOT regulated.

#### VIII. STORAGE AND SPECIAL PRECAUTIONS

#### Precautions to be taken in handling and storage

Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs, as well as household cleaning products. Wash hands with soap and water after handling product. Keep out of reach of children.

# In case of spills

Avoid dusting or misting conditions during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose. Keep spills away from drinking water supplies. After cleaning up spill, flush area with water.

#### Waste Management/Disposal

Apply as fertilizer to field. If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state, and local regulations.

Revised:

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