

----- MATERIAL SAFETY DATA SHEET -----

Scotts-Sierra

PETERS PROFESSIONAL(R) SOLUBLE PLANT FOOD
20-10-20 GENERAL PURPOSE

MANUFACTURER: SCOTTS-SIERRA HORTICULTURAL PRODUCTS CO.
THE SCOTTS COMPANY
14111 SCOTTSLAWN ROAD
MARYSVILLE, OHIO 43041
IN CASE OF EMERGENCY CALL: CHEMTREC 1-800-424-9300
INTERNATIONAL EMERGENCY TELEPHONE NUMBER: 1-703-527-3887
(USA)
FOR NON-EMERGENCY CALLS: 1-937-644-0011 (USA)

Tumorigenic, mutagenic, and reproductive effects of potassium nitrate and urea in laboratory animals are reported in the NIOSH Registry of Toxic Effects. Blue dye may cause temporary staining of skin.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: Skin abrasions and sores.

Inhalation of dust may aggravate asthma.

TARGET ORGANS: Skin, eyes, respiratory tract, gastrointestinal tract, and central nervous system.

PRIMARY ENTRY ROUTE(S): Ingestion, inhalation.

CHRONIC EFFECT(S): Chronic exposure to nitrates may cause weakness, depression, headache, blood changes (methemoglobinemia and anemia), and kidney injury (nephritis).

ACUTE EFFECT(S): Excessive inhalation of dust may cause irritation and coughing. Prolonged skin contact with product may cause mild irritation.

INGREDIENTS LISTED AS A CARCINOGEN:

IARC MONOGRAPHS: No

NTP: No

OSHA: No

I. MATERIAL IDENTIFICATION

PRODUCT NAME: Peters Professional(R) Soluble Plant Food
ANALYSIS: 20-10-20 General Purpose
STOCK NUMBER: 91840

NFPA HAZARD RATINGS:

HEALTH: 2	0 Least
FLAMMABILITY: 0	1 Slight
REACTIVITY: 2	2 Moderate
	3 High
	4 Severe

II. HAZARDOUS INGREDIENTS

MATERIAL	CAS #	OSHA PEL	ACGIH TLV
Potassium Nitrate	7757-79-1	None	None
Monopotassium Phosphate	7778-77-0	None	None
Tri-potassium Phosphate	7778-53-2	None	None
Ammonium Nitrate	6484-52-2	None	None
Magnesium Sulfate	7487-88-9	None	None
Boric Acid	10043-35-3	None	None
Copper EDTA	14025-15-1	None	None
Manganese EDTA	15375-84-5	None	None
Iron EDTA	15708-41-5	None	None
Zinc EDTA	14025-21-9	None	None
Sodium Molybdate	7631-95-0	5 mg(Mo)/m3	5mg(Mo)/m3

This product is classified as an OXIDIZER for transportation purposes.

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 induce repeated vomiting until vomit is clear. Call physician.

SKIN: Wash with plenty of soap and water.

INHALATION: Remove to fresh air. Treat symptomatically.

IV. HEALTH HAZARD INFORMATION

SUMMARY OF RISKS: Ammonium nitrate is an allergen.

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). Infants and children are especially at risk for cyanosis. Ingestion of large amounts may result in death.

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 dust, 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

EXTINGUISHING MEDIA: Water

AUTO IGNITION TEMPERATURE: N/A

FLASH POINT (METHOD): Decomposes on heating

COLOR: Aqua-blue powder

ODOR: Slight yeasty odor

BOILING POINT: Decomposes on heating

SOLUBILITY IN H2O: 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)

REACTIVITY:

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will Not Occur

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 and magnesium. Strong alkalis and reducing agents. Chlorine compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire, may produce oxides of nitrogen, potassium, phosphorus, and sulfur, as well as ammonia.

CHEMICAL INCOMPATIBILITIES: Nitrates are incompatible with strong alkalis and reducing agents, active metals (such as aluminum and magnesium), ammonia, organic, and combustible materials.

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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, phosphorus, and potassium.

IN CASE OF FIRE: 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: Nitrates, inorganic, N.O.S., 5.1, UN1477, PGII.

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.

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DATE ISSUED: 11/15/94

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