

Reed & Perrine

FERTILIZERS & LANDSCAPE SUPPLIES SALES, INC.

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MATERIAL SAFETY DATA SHEET

FERTILIZER

Issue Date: 8/06

I. PRODUCT IDENTIFICATION

Product Name Reed & Perrine, Inc. Fertilizer
Common Name(s) ... Granular Fertilizer, Mixed Fertilizer N-P-K Product
UN/MA# N/A DOT Hazard Class N/A

Shipping Name Fertilizer Compound (Manufactured Fertilizer) NOI, Dry

II. INGREDIENTS & RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS

Exposure Limits
Material -- Formula -- Cas. No. -- %Wt. -- Osha-Pel -- Acgih-TVL (*See Addendum I)

III. PHYSICAL DATA

Density 40 - 70 lb. / ft. 3
Boiling Point N/A, Dry Solid
Melting Point Partially decomposes at 212* F
Vapor Pressure N/A PH 6-8 Vapor Density N/A
Solubility In Water 20 - 60% of product is soluble
Appearance and Odor ... Multi-color granules and mild aromatic odor

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method) N/A
NFPA Rating Health O - Fire O - Reactivity O - Special Hazard O
Flammable Limits (Lel) ... N/A (Uel) N/A
Extinguishing Media Water, Foam, Carbon Dioxide or Dry Chemicals

SPECIAL FIRE FIGHTING PROCEDURES: May emit noxious and toxic fumes when heated to decomposition. Self-contained breathing apparatus should be used.

**This information is taken from sources or based upon data believed to be reliable; however, Reed & Perrine, Inc. makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.*

V. REACTIVITY DATA

Stability This is a stable material.
Conditions to avoid Do not store in direct sunlight or temperatures above 120* F
Incompatibility Generally none. Water damages product and may contribute to the release of ammonia vapors.
Hazardous Decomposition Products Ammonia, sulfur oxides, chlorides, fluorides and nitrogen oxides.
Hazardous Polymerization .. Will not occur.

VI. HEALTH HAZARD DATA

Effects Of Overexposure... as indicated below are for the unimpregnated fertilizer, for health information on any active pesticide ingredients refer to attached suppliers material safety sheets. Except under conditions of severe overexposure, this fertilizer compound is regarded to have a relatively low acute health hazard potential.

INHALATION: Extremely high concentrations of fertilizer dust are typically self-limited due to the nuisance conditions they create. Over exposure may produce irritation of the mucous membranes, nose, throat, coughing and shortness of breath. In addition, certain fertilizers may contain small amounts of silica particles less than 5 um in diameter. These silica particles are capable of causing silicosis if inhaled in high enough concentrations over an extended period of time. The principal manifestation of silicosis is difficulty in breathing. This condition can progress to dry cough, shortness of breath on exertion, decreased lung function and pulmonary fibrosis.

SKIN CONTACT: May cause irritation, particular on damp skin. Repeated or prolonged contact could lead to dermatitis.

EYE CONTACT: May cause irritation and conjunctivitis.

INGESTION: May produce nausea, vomiting, abdominal discomfort and, if swallowed in very large amounts, may cause increased urination and central nervous system depression.

EMERGENCY AND FIRST AID PROCEDURE

INHALATION: Remove from exposure. If breathing is difficult or has stopped, administer artificial respiration or oxygen as indicated. Immediately seek medical aid.

SKIN CONTACT: Wash thoroughly with soap and water. Seek medical aid.

EYE CONTACT: Flush immediately with large amounts of water, lifting the lower and upper lids occasionally. Seek medical aid.

INGESTION: Give 1-2 large glasses of water or milk. Induce vomiting. Immediately seek medical aid. Never give liquids to an unconscious person.

VII. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released: In case of release to the environment, report spills to the National Response Center 1-800-424-8802 or Chemtrec 1-800-424-9300.

Suggested Local Action: Contain spill. Prevent large quantities from contacting vegetation or domestic and natural water sources. If material is not contaminated, collect product and use as intended. If material is contaminated, place in appropriate containers for disposal.

Waste Disposal Method: (EPA Waste Identification #: N/A)

If contaminated with other materials, the nature and extent of contamination may require the use of specialized disposal methods. If disposal is necessary, comply with all local, state and federal regulations. Contact your local EPA office for info.

For Hazardous Waste Regulation call 1-800-424-9346 - The RCRA Hotline

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY: Respiratory protection approved by NIOSH/MSHA for protection against pesticides should be used to avoid inhalation. Appropriate respiration selection depends on the type and magnitude of exposure.

SKIN: Clean, body-covering clothing should be worn to prevent irritation in situations where direct contact with product may occur.

EYES: Employees should be required to wear chemical safety splash goggles in situations where direct contact with the product may result in eye injury.

VENTILATION: Local exhaust ventilation should be used to control worker exposure to below recommended Permissible Exposure Levels (PEL).

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash stations and deluge safety showers should be available in the work area.

IX. SPECIAL PRECAUTIONS

PRECAUTION TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry location. DO NOT store near food or feed. Keep out of reach of kids & pets.

OTHER COMMENTS: Chronic Effects - Long term exposure to dusts containing fluoride or quartz may produce severe toxicity with changes to the fluoride of the teeth, the kidneys, bones and ligaments and inhibition of certain enzymes. Chronic exposure and/or high levels of inorganic fluorides administered to experimental animals have been shown to produce changes in several organs and certain enzymes. Adverse reproductive effects have also been suggested. Of the available animal carcinogenicity data, a single inadequately reported study has provided some evidence of the carcinogenicity of sodium fluoride to mice (IARC27,237,82). Quartz dust may produce nodules in the lungs which may gradually progress to formation of fibrous tissue. Symptoms may include coughing, shortness of breath and wheezing.

ADDENDUM I

Product Name Reed & Perrine, Inc. Fertilizer

II. INGREDIENTS AND RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS

Note: Consult the guaranteed analysis statement on the above product container to determine which below materials are found in that product.

MATERIALS	FORMULA	CAS.#	% WT.	OSHA-PEL	ACGIH-TLV
Urea	N2H4CO	57-13-6	0-75	NE	NE
Diammonium Phosphate	N2H9P04	7783-28-0	0-40	50ppm(as NH3)	25ppm(as NH3)
Potassium Chloride	KCL	7747-40-7	0-70	NE	NE
Limestone	CaCO3	1317-65-3	0-50	NE	NE
Dolomitic Limestone	CaCO3(+MgCO3)	16389-88-1	0-40	NE	NE
Ammonium Sulfate	N2H8S04	7783-20-2	0-75	50ppm(as NH3)	25ppm(as NH3)
Potassium Sulfate	K2S04	7778-80-5	0-20	NE	NE
Super Phosphate	CaH4P208	7758-23-8	0-10	NE	NE
Corncobs (Pulverized)	----	NE	0-60	NE	NE
Calcium Lignosulfonate	----	68131-31-7	0-01	NE	NE
Mineral Oil	----	NE	0-01	NE	NE
Conditioners, Impurities	----	NE	0-01	NE	NE
Sulfur Coated Urea	N/A	NE	0-25	NE	NE
Urea Formaldehyde	N/A	9011-05-6	0-25	NE	NE
Muriate of Potash	N204	10544-72-6	0-25	5ppm	3ppm
Nutralene	N/A	NE	0-25	NE	NE
Monoammonium Phosphate	NH4H2P04	7722-76-1	0-40	15 mg/m3	15 mg/m3
Milorganite	----	68188-15-8	----	NE	NE
Oceangro	----	7732-18-5	----	NE	NE
Potassium Nitrate	N/A	7757-79-1	0-50	ND	ND
Sodium Borate	----	111130124	----	10mg B203/m3	----
Copper Oxide	----	1317391	----	1mg Cu/m3	----
Copper Sulfate	----	7758996	----	1mg Cu/m3	----
Iron Oxide	----	1332372	----	5mg Fe/m3	----
Iron Sulfate	----	7720787	----	1mg Fe/m3	----
Manganese Oxide	----	1344430	----	1mg Mn/m3	----
Manganese Sulfate	----	7785877	----	1mg Mn/m3	----
Sodium Molybdenum	----	7631950	----	5mg Mo/m3	----
Zinc Oxide	----	1314132	----	5mg Zn/m3	----
Zinc Sulfate	----	7733020	----	5mg Zn/m3	----

*NE - NON ESTABLISHED

The following dust limits apply:

CLASS	OSHA-PEL	SCGIH-TLV
Total Dust (In Air)	15mg/m3	10mg/m3
Respirable Dust (In Air)	5mg/m3	5mg/m3