

Material Safety Data Sheet

JR PETERS, INC
6656 Grant Way
Allentown, PA 18106

Oasis® Grower Solutions

16-4-17 Hydroponic Fertilizer

MSDS DATE: 1/24/2013

In Case of Emergency call:
CHEMTREC: 800-424-9300
For non-Emergency calls:
1-610-395-7104

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Oasis Grower Solutions 16-4-17 Hydro FeED**PRODUCT NUMBER (S):** 87-16417**MANUFACTURER:** JR PETERS INC
6656 Grant Way
Allentown, Pa. 18106**24 HR. EMERGENCY TELEPHONE NUMBER:**
CHEMTREC PHONE: 800-424-9300
OTHER CALLS: 610-395-7104

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>MATERIAL</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Ammonium Nitrate	6484-52-2	None	None
Calcium Nitrate	15245-12-2	None	None
Magnesium Nitrate	10377-60-3	None	None
Monopotassium Phosphate	7778-77-0	None	None
Pekacid	14887-42-4	None	None
Potassium Nitrate	7757-79-1	None	None

COMMENTS: The ACGIH Threshold Limit Values (TLV) for nuisance (inert) dusts containing < 1% crystalline silica and no asbestos are: 10 mg/m³ inhalable particulates and 3 mg/m³ respirable particulate. The OSHA TLV is 15 mg/m³ total dust, 5 mg/m³ respirable fraction.

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Powder**ODOR:** slightly yeasty odor**COLOR:** white**pH:** 2.47 (10% solution)**SOLUBILITY:** water soluble**DENSITY:** 59.5-61.5 lbs/ft³

SECTION 4: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW**IMMEDIATE CONCERNS:**

MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE SKIN AND EYE IRRITATION.

- Avoid contact with eyes, skin, and clothing.
- Wash thoroughly after handling.
- Avoid breathing dust.
- Do not swallow.

POTENTIAL HEALTH EFFECTS**EYES:** May cause eye irritation.**SKIN:** May cause skin irritation.**INGESTION:** Possible nausea, vomiting, diarrhea.**INHALATION:** Prolonged or excessive inhalation may cause respiratory tract irritation.**MEDICAL CONDITIONS AGGRAVATED:** Skin abrasions, sores, or other pre-existing skin conditions. Inhalation of dust may aggravate asthma.**ROUTES OF ENTRY:** Ingestion, skin, inhalation, and/or eyes.

SECTION 5: FIRST AID MEASURES

EYES: 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:** Remove contaminated clothing. Flush affected area with water for 15 minutes. Wash affected area with mild soap and water. Seek medical attention if irritation develops or persists.

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INGESTION: If swallowed, 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 by the 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 mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative and would apply in the event a product label is not immediately available.

SECTION 6: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Water

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce ammonia as well as toxic oxides of carbon, nitrogen, and other metal oxides.

EXPLOSION HAZARDS: High airborne dust concentrations have the potential for explosions.

FIRE FIGHTING PROCEDURES: 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.

FIRE FIGHTING EQUIPMENT: Wear self-contained breathing apparatus to fight large fires.

FLASHPOINT: Decomposes on heating.

SECTION 7: ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Avoid dusting or misting condition during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose according to local, state, or Federal regulations. Keep spills away from drinking water supplies. After spill cleanup, flush area with water. Read label

SECTION 8: HANDLING AND STORAGE

HANDLING: Wash hands with soap and water after handling product. 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. KEEP OUT OF REACH OF CHILDREN.

STORAGE: KEEP OUT OF REACH OF CHILDREN. Avoid container breakage. Store in cool, dry area in closed container or package. Keep away from feed or foodstuffs.

SECTION 9: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Eye and face protection is not required for routine use. High airborne dust levels or mists of product dissolved in liquid may be irritating - use chemical goggles.

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

RESPIRATORY: 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.

OTHER USE PRECAUTIONS: Running water or eye wash station should be available in case material gets in eyes.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: NO

Hazardous Decomposition Products: Loses chemically combined water upon heating, forming metaboric acid (HBO₂) at 212-221F, then pyroboric acid (H₂B₄O₇) at 285-320F, and Boric anhydride at higher temperatures.

CONDITIONS TO AVOID: High levels of moisture. This product is very soluble and will turn into liquid solution if it comes in contact with moisture.

INCOMPATIBLE MATERIALS: Liquid fuels.

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SECTION 11: TOXICOLOGICAL INFORMATION

CARCINOGENICITY:

IARC: No

NTP: No

OSHA: No

GENERAL COMMENTS: Little toxicology information is available for this product. Nitrate-containing substances are potential allergens. Prolonged or repeated 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 nitrates can cause gastrointestinal irritation, muscular weakness, and blue-tinged skin (cyanosis). Eye contact with urea powder may cause reversible corneal opacity along with irritation, tearing, and blinking as a foreign body in the eye. Skin contact with powdered urea may cause only mild irritation while ingestion may cause nausea, vomiting, and possible excitement and convulsions. Inhalation of high concentrations of metals (such as dusts containing manganese, molybdenum, copper, zinc, iron, etc.) over very long periods of time (several years, for example) may cause damage to the central nervous system or affect the lung, liver, or kidney.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Keep out of lakes, streams, or ponds.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: 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.

SECTION 14: TRANSPORT INFORMATION

DOT CLASSIFICATION: Not DOT regulated.

SECTION 15: REGULATORY INFORMATION

GENERAL COMMENTS: Contact local authorities for proper disposal of large quantities of unused fertilizer.

SECTION 16: OTHER INFORMATION

NFPA CODES

HEALTH: 1 FIRE: 0 REACTIVITY: 0

NFPA Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

GENERAL STATEMENTS: 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.