SECTION 1: Product and company identification

1.1 Product identifier

Product Name: Jack's Hydroponic 16-4-17 Hydro FeED
Product Number(s): 59164
Product form: powder

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance: Water Soluble Fertilizer for the hobbyist/home grower to be used on house and garden plants.

1.3 Details of the supplier of the safety data sheet

JR Peters, Inc.
6656 Grant Way
Allentown, PA 18106 – USA
866-522-5752
www.jrpeters.com

1.4 Emergency telephone number

Emergency number: 800-424-9300 (CHEMTREC)

SECTION 2: Hazards identification

2.1 Classification and substance of mixture

Physical Hazard: none
Health hazards: none
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.
Environmental hazards: none
OSHA defined hazards: none

2.2 Label elements

Hazard pictograms: none
Signal word: none
Hazard statements: none
Precautionary Statements: Do not swallow. Keep out of reach of children.
Hazards not otherwise classified: None

2.3 Other hazards

Other hazards not contributing to the classification:

2.3 Unknown acute toxicity (GHS-US)

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substance

Solid White Powder and Crystals with fertilizer odor.

3.2 Mixture

Name	CAS Number	%
Potassium Nitrate	7757-79-1	30-40%
Monopotassium Phosphate	7778-77-0	3-5%
Ammonium Nitrate	6484-52-2	10-20%
Magnesium Nitrate	10377-60-3	15-20%
Calcium Nitrate	15245-12-2	15-20%
Pekacid	14887-42-4	2-5%

Any concentration shown as a range is to protect confidentiality. Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i).

SECTION 4: First aid measures

4.1 Description of 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 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.

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 do so 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.

4.2 Most important symptoms and effects, both acute and delayed

No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Water.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition may produce ammonia as well as toxic oxides of carbon, nitrogen and other metal oxides.
High airborne dust concentrations have the potential for explosions.

5.3 Advice for firefighters

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.

SECTION 6: Accidental release measures

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.

SECTION 7: Handling and storage

Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Co not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams, or ponds. Store in a cool dry area in a closed container or package. Keep away from feed or foodstuffs.
KEEP OUT OF REACH OF CHILDREN.

SECTION 8: Exposure controls/personal protection

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.
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. If prolonged or repeated use irritates skin, use natural rubber gloves.
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. Running water or eye wash station should be available in case material gets in eyes.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State:	Solid
Appearance:	Powder and Crystals
Color:	Light Blue
Odor:	Slightly yeasty
Solubility	Highly soluble in water
Relative Density	55-75 lbs/ft^3

9.2 Other information

This product is a blend of water soluble powders designed for application to plants as fertilizers.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No available information.

10.4 Conditions to avoid

Keep away from heat and ignition sources, damp or wet conditions. This product is very soluble and will turn into a liquid solution if it comes in contact with moisture.

10.5 Incompatible materials

Strong Acids, bases, oxidizers, and reducing agents. Avoid contact with other chemicals, fuels and heavy metal salts.

10.6 Hazardous decomposition products

Contact with acids liberates very toxic gases. Toxic metal oxides may be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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) over 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

Keep out of lakes, streams or ponds.

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

No information available.

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.

13.1 Waste treatment methods

Not applicable.

SECTION 14: Transport information

14.1 In Accordance with DOT (United States Department of Transportation)

Not classified as a dangerous good under transport regulations.

14.2 In Accordance with IMDG (International Maritime Dangerous Goods Code)

Not classified as a dangerous good under transport regulations.

14.3 In Accordance with IATA (International Air Transport Association)

Not classified as a dangerous good under transport regulations.

14.4 In Accordance with TDG

Not classified as a dangerous good under transport regulations.

SECTION 15: Regulatory information

15.1 US Federal regulations

15.2 International regulations

CANADA

EUROPEAN UNION

15.2.2 National regulations

15.3 US State regulations

SECTION 16: Other information

JR Peters, Inc asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within JR Peters, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of JR Peters, Inc. It is the user's obligation to determine the conditions of safe use of the product.

SDS US – JR PETERS, INC.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.