



## *J & J Agri-Products and Services, Inc*

220 South Second Street

Dillsburg, PA 17019

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### **Material Safety Data Sheet**

**Identity of Material: NI/CAL Liquid nitrogen starter with calcium**

#### **Section 1 General Information**

Manufacturer's Name J & J Agri-Products Services Inc.

Emergency Telephone Number: 1-877-457-4040

Address 220 South Second Street, Dillsburg PA 17019

Information Telephone Number: 1-877-457-4040

Date MSDS Prepared 11/11/91

MSDS Prepared By: Microbac Laboratories, Inc.

#### **Section 2 HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Cas #	Chemical Name	Compound Name	%	OSHA PEL
7732-18-5	Water / H <sub>2</sub> O	Same	60 -65 %	None Established
13477-34-4	Calcium Nitrate	Same	25%	None Established
Not Listed	Sugar Derivative	Same	5 – 10%	None Established
Not Listed	Trace Minerals	Same	< 5%	None Established

#### **Section 3 PHYSICAL AND CHEMICAL CHARACTERISTICS**

Boiling Point ..... No data established

Melting Point ..... N/A

Specific Gravity ..... 1.36

Vapor Pressure ..... No data established

Soluble in Water ..... Soluble @ 25 degrees C

Evaporation Rate ..... No data established

Freezing Point ..... No data established

Appearance & Color ..... Dark Brown—low viscosity liquid with a  
Moderate "soil" odor

pH ..... 6.38

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### **Section 4 Fire and Explosion Hazard Data**

Flashpoint: >200 degrees F: (closed cup) negligible fire hazard when exposed to heat or flame

**LEL:** None established

**UEL:** None established

**Extinguishing Media:** Water only

**Special firefighting Techniques:**

If possible, remove container from fire area. Apply cooling water to sides of containers exposed to flames until after the fire is out.

**Unusual Fire and Explosion Hazards:**

Strong oxidizer may increase combustion of organic matter.

### **Section 5 Reactivity Data**

**Stability:** Stable under normal conditions.

**Incompatibility (materials to avoid):** Reducing materials

**Hazardous Decomposition Products:** Under extreme heat decomposition may produce toxic oxides of nitrogen.

**Conditions to avoid:** High concentrations of residue following evaporation are strong oxidizers.

### **Section 6 Health Hazard Data**

**Routes of Entry:** Inhalation: Yes

Skin: Yes

Ingestion: Yes

**Health Hazards:** Acute: Inhalation: May cause irritation, coughing, some throat and shortness of breath.

Skin: Irritant; may cause irritation with redness and pain.

Eye Contact: Irritant; may cause irritation with redness and pain.

Ingestion: May cause abdominal discomfort. Rarely inorganic nitrates May be reduced to nitrites in the digestive tract by nitrate reducing Bacteria resulting in methemoglobinemia.

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### **Section 6 Health Hazard Data cont.**

#### **Effects of Overexposure**

Acute: See page 2 for health hazards.

Chronic: Inhalation: No data available

Skin: Prolonged or repeated contact with irritants may cause Dermatitis.

Eye: Prolonged or repeated exposure to irritants may cause Conjunctivitis.

Acute Oral LD500 mg/kg rat

### **EMERGENCY AND FIRST AID PROCEDURES**

**Eyes:** Wash eyes immediately with copious amounts of water (15 – 20 minutes) occasionally Lifting upper and lower lids. Get medical help immediately.

**Skin:** Remove contaminated clothing and shoes immediately. Wash affected areas with soap and large amounts of water for at least 15 – 20 minutes or until no evidence of the chemical remains. Get medical help immediately.

**Inhalation:** Remove to fresh air immediately. Keep person warm and at rest and get medical help immediately.

**Ingestion:** Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs keep head lower than hips to prevent aspiration.

### **Section 7 Precautions for Safe Handling and Use**

**Spills or Releases:** For small spin: Contain and place contaminated material in a clean dry inert (plastic) container. For larger spills dike far ahead of spill and absorb any free liquid with soil/sand or other absorbing material for later disposal.

**Waste Disposal:** Dispose of waste, containers, or contaminated material in accordance with Federal, State and Local regulations.

#### **Precautions to be taken in handling/storage:**

Store away from incompatible substances in a well-ventilated, cool area.

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### **Section 8 Control Measures**

Ventilation Requirements: Store in a well-ventilated area.

### **Personal Protection**

Respiratory: A minimum of dust and mist or air purifying respirator should be worn in areas of mist or dust.

Eye: Do not wear contacts. Safety glasses or goggles are recommended.

Gloves: Recommended: Latex or butyl

Other: Wear appropriate protective impervious clothing and equipment to prevent prolonged or repeated skin contact with this substance.

Monitoring Exposure

Work/Hygiene Practices: N/A

### **Section 9 Special Precautions and Comments**

The above information is believed to be correct on the date it is published and must not be considered all inclusive. The information has been obtained only by a search of available literature and through limited testing of the product. This MSDS is provided without any warranty expressed or implied, including merchantability or fitness for any particular purpose.