

## **NUTRISPHERE-N™ for Liquid Nitrogen Fertilizers**

Inhibits Nitrogen Volatilization and Nitrification

NUTRISPHERE-N for Liquid Nitrogen Fertilizers is a polymer that stabilizes and protects nitrogen in liquid nitrogen fertilizers (UAN, etc) inhibiting volatilization and nitrification of nitrogen fertilizers when applied to the soil.

Active Ingredient - Minimum 40% maleic-itaconic co-polymer

NUTRISPHERE-N is a NON-PLANT FOOD INGREDIENT. NOT RECOMMENDED FOR USE AS A FERTILIZER SUBSTITUTE.

**WARNING:** NUTRISPHERE-N for Liquid Nitrogen Fertilizers is designed to be mixed with compatible liquid nitrogen fertilizers that are applied to the soil near the planted seed. NUTRISPHERE-N is intended to prevent or reduce nitrogen volatilization and nitrification liquid in nitrogen fertilizers. Read the entire label before use. Use according to label directions.

**NUTRISPHERE-N for Liquid Nitrogen Fertilizers has a pH of 1.0 to 2.0. Always wear proper personal protection (recommend long sleeves and long pants, masks, eye goggles and natural or butyl rubber gloves) when handling NUTRISPHERE-N for Liquid Nitrogen Fertilizers.** Before using this product read the "Warranty Disclaimer" and "Limitation of Liability" statements made below.

When mixing NUTRISPHERE-N into liquid nitrogen fertilizers, use only NUTRISPHERE-N for Liquid Nitrogen Fertilizers. Only NUTRISPHERE-N for Liquid Nitrogen Fertilizers will provide the volatilization and nitrification control intended.

### MIXING INSTRUCTIONS

Mixing NUTRISPHERE-N for Liquid Nitrogen Fertilizers with Liquid Nitrogen Fertilizer Solutions  
NUTRISPHERE-N should be mixed thoroughly by agitation into liquid nitrogen fertilizers prior to adding pesticides, surfactants or other products. Test compatibility with other products that may be mixed with the liquid nitrogen fertilizers, **especially products containing phosphates**, by mixing in a jar or beaker a proportional quantity of NUTRISPHERE-N for Liquid Nitrogen Fertilizers and the other products to be added to the mixture prior to mixing NUTRISPHERE-N into a liquid fertilizer tank or container

### Application Rates

NUTRISPHERE-N for Liquid Nitrogen Fertilizers is recommended for use at a rate of 0.50 % (0.5 gallon of NUTRISPHERE-N per 99.50 gallons of liquid nitrogen fertilizer). Use liquid nitrogen fertilizers containing NUTRISPHERE-N at the same rate as recommended by your dealer.

### General Use Precautions

Observe all precautions on the label and read the material safety data sheet prior to use. Do not contaminate waterways and sewers during cleaning of equipment or disposal of wastes; always adhere to applicable provisions of federal, state and local laws and regulations.

### Disposal

Completely empty the contents of the NUTRISPHERE-N container into application equipment, then dispose of empty container by depositing in a sanitary landfill or as required by law. Do not reuse empty containers or allow children to play with empty containers.

### Limitations of Liability

SFP LLC assumes no responsibility for injury or loss of life of humans or animals or damage to crops, soils or property resulting from the handling or use of this product. The Buyer and User understand and are familiar with this product and assume all liabilities and risks resulting from handling, use and storage.

FOR AGRICULTURAL USE ONLY.

NOT FOR HOME USE OR HUMAN CONSUMPTION

Notice: SFP shall not be liable for direct, consequential, special or indirect damages resulting from the use, handling or storage of this product. NUTRISPHERE-N for Liquid Nitrogen Fertilizers is intended for use in the agricultural market.

**KEEP OUT OF THE REACH OF CHILDREN**  
**DO NOT INHALE OR SWALLOW**

Due to the possibility of eye and skin irritation, avoid contact. In case of accidental contact with eyes or skin, flush with ample water. If irritation persists, contact a physician. NUTRISPHERE-N could be harmful if swallowed. Empty containers may contain residue. All label warnings apply to empty containers.

**WARRANTY**

SFP warrants this product to conform to the chemical description stated on this label, and it is reasonably suited for the purposes stated on the label only when used in accordance with the directions under normal conditions of use. It is impossible to eliminate all risks inherently associated with this product. Crop injury, ineffectiveness or other unintended consequences may occur because of factors such as weather conditions, presence of other substances, manner of use or application. The factors heretofore stated are intended as examples only and are not exhaustive factors that may affect the use of this product or the results obtained. Such factors are beyond the control of SFP and should be anticipated by the Buyer and User of this product. Buyer and User acknowledge they are familiar with the product and assume all risks and liability for its use.

Notice: SFP makes no warranty of merchantability or fitness for a particular purpose or any other express or implied warranties beyond that stated herein above. No agent or representative of SFP has been authorized to make any warranty or representation inconsistent with that stated herein above. The exclusive remedy against SFP for any cause of action arising from use or handling of this product shall at SFP's discretion be the refund of purchase price to Buyer or User for the product purchased or replacement of the product used.

**NUTRISPHERE-N for LIQUID NITROGEN FERTILIZERS IS PRODUCED UNDER  
THE FOLLOWING PATENTS**

6,515,090	6,703,469
6,515,091	6,818,039
6,525,155	6,756,461
6,518,382	6,753,395
6,515,092	6,706,837
6,596,831	6,566,477

Other Patents Pending

CAS No. 877469-38-0

Information about this product may be obtained by writing to:  
Specialty Fertilizer Products LLC • 134 Cherry Hill Drive • Belton, MO 64012  
P: 888-446-4769 • Email: [info@specialtyfertilizer.com](mailto:info@specialtyfertilizer.com)

CONTAINS 2.5 GALLONS (US)	<u>NET WEIGHT:</u> 24 POUNDS
CONTAINS 9.46 LITERS	11 KILOGRAMS

Sold According to Volume Measurement



## MATERIAL SAFETY DATA SHEET

Item Name: SFP polymeric material, about 30-60% w/w in water  
Trade Name/Synonyms: Nutrisphere-N for Liquid Nitrogen Fertilizers  
Chemical Family: carboxylated polymer

Company's Name: SPECIALTY FERTILIZER PRODUCTS  
Company's Address: 134 Cherry Hill Drive,  
Belton, Missouri 64012 USA

Telephone Number: 888-446-4769  
Date MSDS Prepared: March 6, 2006  
DOT information: Not regulated

### Section 1 Chemical Identification.

Maleic-itaconic copolymer, calcium salt, 30-60% w/w solution in water.

### Section 2 CAS # 877469-38-0

### Section 3 Hazards identification.

Irritating to eyes and skin.

In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

### Section 4 First aid measures.

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

In case of contact, immediately wash skin with soap and copious amounts of water. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen.

If swallowed, wash out mouth with water, provided person is conscious. Call a physician.

Wash contaminated clothing before reuse.

### Section 5 Fire fighting measures.

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special fire fighting procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire hazards: may emit toxic fumes under fire conditions.

### Section 6 Accidental release measures.

Wear respiratory, chemical safety goggles, rubber boots, heavy rubber gloves. Spilled material should be carefully wiped up or washed away with water. Ventilate area and wash spill site after material pickup is complete.

Material is slippery and/or sticky when wet and can dry to a slowly soluble-slippery film.

### Section 7 Handling and storage.

Store in a cool dry place away from direct sunlight. Keep tightly sealed. Clean up spills promptly.

### Section 8 Exposure controls and personal protection.

Use chemical safety goggles/face shield (eye irritant).

Use compatible chemical-resistant gloves.

Use appropriate respirator if mist is generated.

Safety shower and eyewash need to be accessible.

Mechanical exhaust is required if using in confined space/area.

Do not inhale.

**Prevent contact with eyes, skin, clothing.**

Wash hands thoroughly after handling.

### Section 9 Physical and chemical properties.

Appearance: light yellow to brown liquid with characteristic light odor.

Physical properties:

pH: 1-2

Flash point: None

Specific gravity: 1.1-1.4

### Section 10 Stability/reactivity information.

Stability: stable at room temperature and pressure.

Incompatible with:

Strong oxidizing agents, strong reducing agents, materials incompatible with water,

materials incompatible with calcium salts, materials incompatible with carboxylates.

Hazardous decomposition products:

It is believed that carbon dioxide and/or monoxide may be generated by high-temperature decomposition.

Hazardous polymerization:

Not possible.

### Section 11

#### Toxicological information

Acute effects:

Causes eye and skin irritation. Irritating to mucous membranes and upper respiratory tract.

Swallowing can cause gastrointestinal disturbance.

To the best of our knowledge, the chemical, physical and toxicological properties of this material have not been thoroughly investigated.

Toxicity data estimates:

Rat (oral LD-50 estimate): >10 g/kg

### Section 12

#### Ecological data.

Not available at this time.

### Section 13

#### Disposal considerations.

Dilute or mix with water to make a dilute solution and dispose according to all federal, state and local regulations.

### Section 14

#### Other information.

Information contained herein is believed to be correct but is not all-inclusive and should be used only as a guide.

In no case will we be liable for any damages resulting from handling or contact with this material.



# NUTRISPHERE-N

FOR LIQUID



2.5 GALLONS (9.46 LITERS)