



NUTRISPHERE-N

N-N™ QUICK DRY



MATERIAL SAFETY DATA SHEET

Item Name: Specialty Fertilizer Products, LLC, (SFP®) polymeric material formulation.

Trade Name/Synonyms: NUTRISPHERE-N® (N-N®) QUICK DRY/
N-N® QUICK DRY

Chemical Family: carboxylated polymer

Company's Name: SFP®

Company's Address: 11550 Ash Street, Suite 220
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USA

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Date MSDS Prepared: January 16, 2012

DOT information: UN 1993, Flammable Liquid, N.O.S. Methanol, 3, PG III

Section 1

Chemical Identification.

Partial calcium salt of maleic-itaconic copolymer.

Section 2

Hazards identification.

IMPORTANT NOTE: Hazards related to methanol content do not apply to product upon completion of its application process to granular nitrogen fertilizer.

Hazards related to methanol:

Wear suitable protective clothing, eye protection and other protective equipment as appropriate.

Toxic by inhalation, ingestion and skin absorption.

Target organs for methanol: eyes, kidneys, liver, heart, central nervous system, skin.

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

Flammable. Flash point >73 degrees F. Avoid ignition sources.

Vapor may form explosive mixtures with air.

Dry residue may be irritating to eyes and skin.

HMIS Rating: Health-3 Fire-3 Reactivity-1

Section 3

Composition information

Component name	CAS #	Amount, % w/w
Partial calcium salt of maleic-itaconic copolymer	877469-38-0	30 minimum
methanol	67-56-1	40-45

Section 4

First aid measures.

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

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, hospital emergency room or poison control center immediately.

In all cases of exposure, obtain prompt medical attention. This is due to

methanol content of the product.

Wash contaminated clothing before reuse.

Section 5

Fire fighting measures.

Extinguishing media: water spray, fog, 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. Fire control water needs proper disposal due to methanol content.

Flammable/combustible material may be ignited by spark, flame, or heat.

Vapor may travel to source of ignition and flash back. Container may explode if sufficiently heated by fire. Vapors may explode.

Upper explosion limit in air: 36%, lower explosion limit in air: 6%.

Runoff to sewer may create explosion hazard.

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

Section 6

Accidental release measures.

Wear respirator, chemical safety goggles, rubber boots, heavy rubber gloves for minor spills. Isolate hazard area. Stay upwind and out of low-lying areas due to methanol vapors. Positive-pressure self-contained breathing apparatus and chemical protective clothing are required for personnel involved in cleanup with no fire. Spilled material should be carefully wiped up or collected for proper disposal. 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. During drying methanol vapor is given off.

Do not breathe vapors, mist or gas.

Section 7

Handling and storage.

Store in a cool dry place away from direct sunlight. Keep tightly sealed.

Clean up spills promptly. Keep away from fire. Avoid skin and eye contact.

Do not breathe vapors, mist or gas. No smoking. Keep away from ignition sources and electrostatic discharges.

Section 8

Exposure controls and personal protection.

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

Use compatible chemical-resistant gloves.

Use appropriate respiratory protection when vapor is generated. Depending on situation, this may be full-face air-purifying respirator with suitable cartridges, or full-face supplied air respirator.

Safety shower and eyebath 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.

Methanol component exposure control data: TWA 200ppm, STEL 250 ppm

Section 9

Physical and chemical properties.

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

Flammable due to methanol content. Methanol upper explosion limit in air: 36%, lower explosion limit in air: 6%.

Physical properties:

pH: 2-3

Flash point: >73 degrees F

Specific gravity: about 1.0-1.1

Solubility: water soluble

Boiling point: 65 C

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, materials incompatible with methanol.

Can react with metals to give off hydrogen, heat and/or steam.

Can react with bases and metal oxides with high evolution of heat and/or steam.

Can react with carbonates to give off carbon dioxide, heat and/or steam.

Hazardous decomposition products:

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

Hazardous polymerization:

Not possible.

May form explosive mixtures with air.

Avoid static discharges.

Section 11

Toxicological information.

Acute effects.

Causes eye and skin irritation. Irritating to mucous membranes and upper respiratory tract. May cause headaches, drowsiness, dizziness, nausea, vomiting. At high doses, may cause visual disturbances, optic nerve damage and blindness, convulsions, circulatory collapse, respiratory fatigue, kidney impairment and death. May be absorbed through the skin.

Target organs: Central nervous system, skin, eyes, digestive tract.

The product should be treated like methanol during use; however, after product is dry, the hazards associated with methanol content are no longer present. To the best of our knowledge, the chemical, physical and toxicological properties of this material have not been thoroughly investigated.

Section 12

Ecological information.

Not available at this time.

Section 13

Disposal considerations.

Dispose according to all federal, state and local regulations.

Section 14

Transport information.

UN 1993, Flammable Liquid, N.O.S. Methanol, 3, PG III

Section 15

Regulatory information.

Not available at this time.

Section 16

Other information.

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