

MANUFACTURER  
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# Material Safety Data Sheet

## NUTREX-M/F

*Nutrient Extender/Microbial Inoculant*

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CHEMTREC EMERGENCY  
Phone: (800) 424-9300

### **IDENTIFICATION**

PRODUCT NAME: Nutrex-MF  
CAS NO.: Mixture  
CHEMICAL FAMILY: Organic amide mixture; dormant organic microbes  
MOLECULAR WEIGHT: Not applicable  
CHEMICAL WEIGHT: Not applicable  
FORMULA: Not applicable  
DOT CLASS: Not regulated by DOT

### **COMPOSITION**

| COMPOSITION (Typical)                                  | %           | CAS NO.     |
|--|-------------|-------------|
| N-methyl-2-pyrrolidone                                 | 1.2         | 872-50-4    |
| N-(n-butyl)-thiophosphoric triamide                    | Proprietary | 94317-64-3  |
| Dicyandiamide  | Proprietary | 461-58-5    |
| Endosporidia from Azobacter, Clostridium, and Bacillus | Proprietary | Proprietary |
| Ascophyllum Nodosum from Brown Seaweed                 | Proprietary | Proprietary |
| Other non-hazardous ingredients                        | Proprietary | Proprietary |
| Water  | Proprietary | 7732-28-5   |

#### **HAZARDOUS INGREDIENTS**

Hazard Rating: (HMIS)  
Health: 0 (Minimal)  
Fire: 0 (Minimal)  
Reactivity: 0 (Minimal)  
Special Hazard: None

#### **PHYSICAL & CHEMICAL INGREDIENTS**

Appearance: dark aqua liquid  
Odor: pungent  
Density: 8.27 lb/gallon  
pH: 6.5  
Solubility: soluble  
Evaporation Rate: N/A  
Vapor Pressure: N/A  
Melting Point: N/A  
Boiling Point: 212° F

#### **FIRE & EXPLOSION HAZARDS**

Flashpoint: N/A  
Flammable Limits: N/A  
Extinguishing Media: Non-combustible; water, foam, fog, dry

Special Procedures: none  
Explosion Hazard: none  
Stability: stable

#### **REACTIVITY DATA**

Conditions to avoid: Extreme heat or fire  
Incompatibility: strong oxidizing agents  
Decomposition: none

#### **HEALTH HAZARD**

By-products: none  
Polymerization: will not occur  
Inhalation: none (recommend particle respirator)  
Ingestion: Induce vomiting. Repeat until vomit is clear.  
Skin: If irritation occurs, wash with water and mild detergent  
Eye: Immediately flush eyes with clean water for 15 minutes. Call a physician.

## **SPILL & DISPOSAL**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Stop leak without risk, and dike to prevent loss or movement of product. Prevent large quantities from entering waterways. If uncontaminated, collect and reuse as product. If contaminated with other materials, collect in suitable containers.

WASTE DISPOSAL METHOD: Consult appropriate regulatory agencies, and dispose in accordance with applicable federal, state, and local regulators.

## **PROTECTION**

RESPIRATORY PROTECTION: If visible mist is present, use NIOSH-approved dust respirators until feasible engineering controls are completed.

EYE PROTECTION: Tight-fitting goggles are recommended to reduce liquid or spray exposure to the eyes.

SKIN PROTECTION: Rubber or neoprene-coated gloves and suitable protective clothing are recommended to minimize skin exposure.

VENTILATION: Not normally required.

OTHER PROTECTIVE EQUIPMENT: Washing facilities should be available.

## **PRECAUTION**

Avoid welding or burning on piping and valves that have contained Nutrex-M/F until they have been thoroughly rinsed with clean water. Salted out material may explode under conditions of confinement and high temperature.

Do not use zinc or copper (brass, bronze, etc) alloys in contact with Nutrex-M/F. Cast iron, malleable iron, and ductile iron are more susceptible to corrosion than aluminum or carbon steel. On storage tanks, be wary of plugs and fittings made of these materials. May salt out at temperature below freezing.

## **DISCLAIMER**

MSDS information should be used as a supplement to other information gathered, including the experience of any person involved with this product. You must make independent determinations of suitability and completeness of the information from all sources to assure both the safety and health of personnel. No guarantee is made by Plant Essentials, LLC, nor is any liability assumed arising from any use of this information