

Material Safety Data Sheet

Effective Date: 10-OCT-2011  
Product: N-FIXX

-----  
I. IDENTIFICATION  
-----

Chemical Name: Not applicable, formulated mixture.  
Chemical Family: Nitrogen Inhibitor  
Formula: Not applicable, formulated mixture.  
Synonyms: None  
CAS Number: Not applicable, formulated mixture.  
EPA Number: None required

-----  
II. PHYSICAL DATA  
-----

Boiling Point: >200 Degrees F.  
Freezing Point: Not determined  
Spec Gravity: 1.060 gms/ml  
Vapor Pressure: Not determined  
Vapor Density: Not determined  
Solubility: Soluble  
Volatiles: Not determined  
Evaporation: Not determined  
Melting Point: Not applicable  
Appearance: Clear, dark blue liquid.

-----  
III. INGREDIENTS  
-----

Material	CAS Number	Percent	TLV	Hazard
N-Butyl-thiophosphoric triamide (NBPT), hydroxyphenolic acids, diols, and pyrrolidones.		100.00	N/E	Skin & eye irritant.

-----  
IV. FIRE AND EXPLOSION HAZARD  
-----

Flash Point: >200 Degrees F.  
Autoignition Temp: Not determined  
Flammable Limit: Not determined  
Extinguishing Media: Use carbon dioxide or dry chemical for small fires. Use alcohol foam for large fires.  
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Evacuate personnel to safe area.  
Fire and Expl Hazard: Closed containers may rupture due to build up of pressure when exposed to extreme heat.

Material Safety Data Sheet

Effective Date: 10-OCT-2011  
Product: N-FIXX

-----  
-----  
V. HEALTH HAZARD  
-----

Carcinogen Information: Not listed by OSHA, IARC or NTP.

ACUTE EFFECTS OF OVER EXPOSURE  
-----

Swallowing: This product may be slightly toxic if ingested, based on data for similar formulations.  
Skin Absorption: No hazard expected from skin absorption.  
Inhalation: Product is not expected to cause any adverse effects when used with adequate ventilation.  
Skin contact: May cause skin irritation after contact.  
Eye Contact: Causes eye irritation after contact.  
Chronic Effects: No data available. A similar product caused skin sensitization so it is expected to be a mild sensitizer.  
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES  
-----

Swallowing: Drink 1 or 2 glasses of water. Immediately call a physician or poison control center and follow their advice. Do not induce vomiting or give anything by mouth to an unconscious person.  
Skin: Wash thoroughly with soap and water immediately. Get medical attention if irritation develops.  
Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.  
Eyes: Immediately flush eyes with plenty of water, continuing for at least 15 minutes. Call a physician if irritation persists.  
Notes to Physician: In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

-----  
VI. REACTIVITY  
-----

Stability: Stable  
Conditions to Avoid: None currently known.  
Polymerization: Will Not Occur  
Conditions to Avoid: None currently known.

Material Safety Data Sheet

Effective Date: 10-OCT-2011  
Product: N-FIXX

-----  
Incompatibility material: Incompatible with acids, strong oxidizing agents and reducing agents.  
Hazardous Combustion: Emits oxides of carbon, nitrogen and sulfur.  
-----

VII. SPILL OR LEAK PROCEDURES

-----  
Spill or Leak Proc: Dike spill. Absorb with an inert material and collect for disposal. Scrub contaminated area with detergent and water. Prevent clean-up water from entering sewers, waterways or low lying areas. Soak up clean-up liquid with sand or other absorbent material.  
Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.  
-----

VIII. SPECIAL PROTECTION INFORMATION

-----  
Respiration: None needed when used with adequate ventilation.  
Ventilation: General and/or local exhaust should be sufficient.  
Gloves: Impervious (neoprene) gloves.  
Eyes: Safety glasses or goggles.  
Other: Eyewash station, emergency shower, impervious apron and footwear.  
-----

IX. SPECIAL PRECAUTIONS

-----  
Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams or ponds with this product.  
Other precaution: This product contains N-methyl pyrrolidone, a chemical known to the State of California to cause birth defects or other reproductive harm.  
-----

X. SHIPPING INFORMATION

-----  
Shipping name: Not regulated by DOT, IATA or IMDG.  
Hazard Class: None  
Identification No: None  
-----

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

10-OCT-2011 07:49:51  
Page 4 Of 4

Material Safety Data Sheet

Effective Date: 10-OCT-2011  
Product: N-FIXX

-----  
Labels Required: None required  
Placarding: None  
Freight Class: Compound, Fertilizer (Manufactured  
Fertilizer), Liquid, NOIBN (NMFC Item 68140,  
Sub 6, Class 70)

Chemical Name	Equivalent R.Q.
-----	-----
Not applicable	Not applicable

-----  
XI. GENERAL PRODUCT INFORMATION  
-----

National Fire Protection Association Rating:  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2                      Fire: 1                      Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y                      Delayed (Chronic) Health: Y  
Sudden Release of pressure: N                      Fire: N  
Reactive: N

-----  
Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
Helena Chemical Company believes that the data contained herein is factual.  
This data is not to be taken as a warranty or representation of legal  
responsibility. It is offered solely for your consideration, investigation  
and verification.