

Material Safety Data Sheet
Identity: Nature Safe 27-2-2 with UFLEXX™
Section I - General Information

Manufacturer's Name: Nature Safe Natural & Organic Fertilizers, A Division of Griffin Industries, Inc. Emergency Telephone Number: (859) 472-7363
4221 Alexandria Pike
Cold Spring, KY 41076 Telephone Number for Information: (859) 472-7363

Date Prepared: 4/10/09
Signature of Preparer: Tom Dobbs

Section II - Hazardous Ingredients/Identity Information

Hazardous Components - Contains no Hazardous Components as described in the Hazard Communication Standard
Substance - Natural Organic Fertilizer CAS Number: N/A
Trade Names - Nature Safe, Nature Safe 27-2-2 with UFLEXX™
Chemical Family: Proteinaceous Organic Animal and Vegetable Byproduct plus Mineral Additive
Molecular Formula: N/A Molecular Weight: N/A

Components and Contaminants

Components:	Percent	CAS No.
Urea	50-60%	57-13-6
Vegetable Byproducts	15-25%	
Animal Byproducts	15-25%	68131-124
Sulfate of Potash	3-6%	7778-80-5
Organic Nitrogen (dicyandiamide)	Proprietary	461-58-5
N-(n-Butyl)-thiophosphoric triamide	Proprietary	94317-64-3

Section III - Physical/Chemical Characteristics

Boiling Point: Decomposes Specific Gravity (H₂O = 1): 0.50 avg.
Vapor Pressure (mm Hg): N/A Melting Point: Decomposes
Vapor Density (Air = 1): N/A Evaporation Rate: 0 (Butyl Acetate = 1)
Solubility in Water: Partly Soluble to Insoluble
Appearance and Odor: Tan to Dark Brown Particles Blended with Greenish Blue Coated Particles, Characteristic Odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): None, Decomposes
Flammable Limits: N/A LEL: N/A UEL: N/A
Extinguishing Media: Type A or B
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: Product will decompose under fire conditions and produce oxides of carbon, nitrogen and sulfur.

Section V - Reactivity Data

Reactivity: Stable
Conditions to Avoid: Avoid contact with ammonium nitrate fertilizers
Incompatibility (Materials to Avoid): Keep separate from any product containing ammonium nitrate
Hazardous Decomposition or Byproducts: Thermal degradation may produce cyanuric acid, cyanic acid, biuret, ammonia, hydrogen cyanide, carbon dioxide and nitrogen oxides
Hazardous Polymerization: Will Not Occur

Section VI - Health Hazard Data

Inhalation: At high dust concentrations may cause mucus membrane irritation.
Skin Contact: If irritation occurs wash thoroughly with soap and water.
Eye Contact: Dust may be irritating to the eyes at high concentrations. In cases of contact flush eyes with plenty of water.
Ingestion: Call Poison Control Center or physician and follow their advice.
Emergency and First Aid Procedures: Wash well after handling.
OSHA Regulated: No

Section VII - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled:
Small Spills: Sweep up spills, if uncontaminated collect and reuse as recommended for product
Large Spills: Same
Disposal: Send to sanitary landfill or contact Griffin Industries, Inc. concerning reprocessing.
Precautions To Be Taken in Handling and Storing: Avoid contact with ammonium nitrate fertilizers
Other Precautions: This product is a plant food. However, large spills could possibly kill vegetation or cause illness in animals. Contamination of waterways may cause fish kills. Prevent large quantities from contacting vegetation or waterways. Keep animals away from large spills.

Section VIII - Control Measures

Respiratory Protection - None required for normal use
Ventilation - Local or general
Protective Gloves - None required
Eye Protection - Safety glasses while handling bulk quantities
Other Protective Clothing or Equipment - No protection normally required
Work/Hygienic Practices - Wash well after handling

The information provided is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.