SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Urea nitrate 98% wetted with not less than 20% water
Product Code: U01150
Supplier: Pfaltz & Bauer, Inc.
172 E. Aurora Street
Waterbury, CT 06708 USA
Phone: 203-574-0075
FAX: 203-574-3181
Emergency Phone: INFOTRAC, US: 1-800-535-5053
INFOTRAC, INTERNATIONAL: +1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazard: Explosive when dry, Flammable solid, Irritant
Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, skin absorption and inhalation.
Chronic Health Hazard: Not Available

HMIS Rating: H: 2  F: 3  P: 2
NFPA Rating: H: 2  F: 3  R: 2

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
Acute toxicity, dermal (Category 4), H312
Acute toxicity, inhalation (Category 4), H332
Acute toxicity, oral (Category 4), H302
Flammable solids (Category 1), H228
Serious eye damage/eye irritation (Category 2A), H319
Skin corrosion/irritation (Category 2), H315
Pictogram:

Signal Word: Danger

Hazard Statement(s):
H228 Flammable solid.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

Precautionary Statement(s):
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P230 Keep wetted with [ ]
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/[ ]/equipment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 IF SKIN irritation occurs: Get medical advice/attention.
P372 Explosion risk in case of fire.

Supplemental Statement(s): EUH001 Explosive when dry

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name: Urea nitrate 98% wetted with not less than 20% water

CAS Number: 124-47-0

MDL Number: MFCD00054386

EINECS Number: Not Available

Beilstein Registry Number: Not Available

Molecular Formula: CH₄N₂O·HNO₃

Molecular Weight: 123.07
SECTION 4: FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention.

Inhalation: Move to a fresh air environment. Contact a physician if breathing becomes difficult.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (°C): 73

Explosion Limits: Not Available

Auto Ignition Temperature (°C): Not Available

Extinguishing Media: May emit hazardous fumes under fire conditions. Explosive when dry.

Protective Equipment: Wear self-contained respirator and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away.

Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE
Handling and Storage: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.
Store in a tightly closed container in a dry, well-ventilated place. Store wetted with water.

Sensitivities: Light

Storage Temperature (°C): 15 to 30

SECTION 8: EXPOSURE CONTROLS/PERS...
Melting Point (°C): Not Available
Boiling Point (°C): Not Available
Decomposition Temperature (°C): 152
Evaporation Rate: Not Available
pH Value: Not Available
Density (g/cm³): 1.69
Refractive Index (n²⁰D): Not Available
Viscosity: Not Available
Solubility in Water: Soluble
Solubility in Other: Insoluble in diethyl ether
Vapor Pressure (mmHg): Not Available
Vapor Density (Air=1): Not Available

SECTION 10: STABILITY and REACTIVITY

Stability: Stable under normal temperatures and pressures.
Incompatibility: Strong oxidizing agents, Reducing agents, Heavy metals
Reactivity: Product may react with incompatible materials to release other hazardous substances.
Conditions to Avoid: Heat, flame, sparks, other ignition sources.
Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference: YT9675000
Target Organs: Not Available
Toxicity Data: Not Available
### Carcinogenicity:
- National Toxicology Program (NTP) listed: Not Available
- International Agency for Research on Cancer (IARC) listed: Not Available

### Potential Symptoms:
- Not Available

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity:**
- Not Available

## SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

## SECTION 14: TRANSPORT INFORMATION

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<thead>
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<th>Urea Nitrate, Wetted (with not less than 20% water, by mass)</th>
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<tr>
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<td>UN1357</td>
</tr>
<tr>
<td>DOT Hazard Class:</td>
<td>Class 4.1</td>
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<td>DOT Packing Group:</td>
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<td>IMDG Shipping Name:</td>
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</table>

## SECTION 15: REGULATORY INFORMATION

United States

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Toxic Substance Control Act (TSCA) listed: No
Superfund Amendments and Reauthorization Act (SARA 302) listed: No
Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No
Superfund Amendments and Reauthorization Act (SARA 313) listed: No

European Union
European Inventory of Existing Chemical Substances (EINECS): Not Available

Canada
Canadian Domestic Substances List (DSL) listed: No
Canadian Non-Domestic Substances List (NDSL) listed: No

**SECTION 16: OTHER INFORMATION**

Date Prepared: 10/1/2018

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.