
MATERIAL SAFETY DATA SHEET

Product Name: Urea

EPA Reg. No: N/A

1. PRODUCT IDENTIFICATION

- **Product Name:** Urea
 - **UN/MA#:** N/A
 - **DOT Hazard Class:** N/A
-

2. INGREDIENTS & RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS

- **TLV** See Addendum 110 MG/M3 as nuisance dust.
-

3. PHYSICAL DATA

- **Density:** 40 – 70 lb/ft
 - **Boiling Point:** N/A dry solid
 - **Melting Point:** Partially decomposes at 212° F
 - **Vapor Pressure:** N/A
 - **Vapor Density:** N/A
 - **pH:** 6-8
 - **Solubility in Water:** 100%
 - **Evaporation Rate:** N/A
 - **Appearance and Odor:** White Crystals and mild aromatic odor
-

4. FIRE AND EXPLOSION HAZARD DATA

- **Flash Point:** N/A
- **Flammable Limits:** N/A
- **Fire Extinguishing Media:** Considered non-combustible. Dry chemical. Foam, CO₂, Water, Spray or Fog.
- **Special Fire Fighting Procedures:** Use self-contained breathing apparatus and full protective clothing. Fight fire from upwind side. Avoid run-off. Keep non-essential personnel away from immediate fire area, and out of any fall-out or run-off areas.
- **Unusual Fire and Explosion Hazards:** None

5. REACTIVITY DATA

- **Stability:** Stable
- **Incompatibility:** None
- **Hazardous Decomposition or By-Products:** None
- **Conditions to Avoid:** None
- **Hazardous Polymerization:** Will not occur

6. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released: In case of release to the environment, report spills to the National Response Center 1-800-424-8802.

Suggested Local Action: Contain spill. Prevent large quantities from contacting vegetation or domestic and natural water sources. If material is not contaminated place in appropriate containers for disposal.

Waste Disposal Method: (EPA Waste identification #: N/A) If contaminated with other materials, the nature and extent of contamination may require the use of specialized disposal methods. If disposal is necessary, comply with all local, state, and federal regulations. Contact your local EPA office for help.

For Hazardous Waste Regulation: call 1 -800-424-9346 – The RCRA Hotline.

7. HEALTH HAZARD DATA

Inhalation: Extremely high concentrations of dust are typically self-eliminated due to the nuisance conditions they create. Over exposure may produce irritation of the mucous membranes, nose, throat, coughing and shortness of breath. In addition certain ice melters may contain small amounts of silica particles less than 5mm in diameter. These silica particles are capable of causing silicosis if inhaled in high enough concentrations over an extended period of time. The principal manifestation of silicosis is difficulty in breathing. This condition can progress to dry cough, shortness of breath on exertion, decreased lung function and pulmonary fibrosis.

Skin Contact: May cause irritation, particular on damp skin. Repeated or prolonged contact could lead to dermatitis.

Eye Contact: May cause irritation and conjunctivitis.

Ingestion: May produce nausea, vomiting, abdominal discomfort and, if swallowed in very large amounts, may cause increased urination and central nervous system depression.

8. EMERGENCY AND FIRST AID PROCEDURE

Inhalation: Remove from exposure. If breathing is difficult or has stopped, administer artificial respiration or oxygen as indicated. Immediately seek medical aid.

Skin Contact: Wash thoroughly with soap and water. Seek medical aid.

Eye Contact: Flush immediately with large amounts of water, lifting the lower and upper lids occasionally. Seek medical help.

Ingestion: Give 1 -2 large glasses of water or milk. Induce vomiting. Immediately seek medical aid. Never give liquids to an unconscious person.

9. SPECIAL PROTECTION INFORMATION

Respiratory: Respiratory protection approved by NIOSH/MSHA for protection against dust should be used to avoid inhalation. Appropriate respiration selection depends on the type and magnitude of exposure.

Skin: Clean, body-covering clothing should be worn to prevent irritation in situation where direct contact with product may occur.

Eyes: Employees should be required to wear chemical safety splash goggles in situations where direct contact with the product may result in eye injury.

Ventilation: Local exhaust ventilation should be used to control worker exposure to below recommended Permissible Exposure Levels (PEL).

Other Protective Equipment: Emergency eye wash stations and deluge safety showers should be available in the work areas.

10. SPECIAL PRECAUTIONS

Precaution to be taken in handling and storage: Store in a cool, dry location. DO NOT store near food or feed. Keep out of reach of children and pets.

THIS INFORMATION IS TAKEN FROM SOURCES OR BASED UPON DATE BELIEVED TO BE RELIABLE; HOWEVER, PETERS CHEMICAL COMPANY, MAKES

NO WARRANTY AS TO THE ABSOLUTE CORRECTNESS OR SUFFICIENCY OF ANY OF THE FOREGOING OR THAT ADDITIONAL OR OTHER MEASURES MAY NOT BE REQUIRED UNDER PARTICULAR CONDITIONS.

ADDENDUM I

Product Name: Urea

Ingredients and Recommended Occupational Exposure Limits:

Note: Consult the guaranteed analysis statement on the product container to determine which materials are found in that product.

<u>Materials</u>	<u>CAS#</u>	<u>OSHA-PEL</u>	<u>ACGLH-TLV#</u>
Calcium Chloride	010043-52-4	N/A	N/A
Sodium Chloride	007647-14-5	N/A	N/A
Potassium Chloride	007447-40-7	N/A	N/A
Urea	000057-13-6	N/A	N/A

Total Dust (In Air): 15»g/m3 10mg/m3

Respirable Dust (In Air): 5mg/m3 5mg/m3

Potassium Chloride & Urea are to be used in areas where grass, shrubs & trees are to be protected!!!