



Section 1: Company and Product Identification

Product Name: Urea

Product Code(s): Urea, s-1296

Synonyms: b-i-k; carbamide; carbamide resin; carbamimidic acid; carbonyl diamide; isourea; nci-c02119; prespersion; 75 urea; oseudourea; ureaphil; urevert; varioform ii

Company: Feed Products & Service Company
 11406 Gravois Rd.
 St. Louis, MO 63126
 PH: (314) 843-7300

Product Use(s): Feed nutritive additive.

Section 2: Hazards Identification

Hazard Pictograms:

Signal Word: Warning

Hazard Category: Sensitization, skin Cat 1

Hazard Statements: H317: May cause an allergic skin reaction
 H303: May be harmful if swallowed

Precautionary Statements: P262: Do not get in eyes, on skin, or on clothing
 P264: Wash thoroughly after handling
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P337+313: If eye irritation persists get medical advice/attention

Hazards not otherwise classified: Non-Hazardous

Section 3: Composition / Information on Ingredients

Substance Name	Hazard Category	CAS#	Weight %
Urea	Sensitization, skin Cat 1	57-13-6	100

Section 4: First Aid Measures

General Info: Considered non-hazardous.

Notable Exposure symptoms: No specific notable exposure symptoms.

If ingested: Rinse mouth. Drink plenty of water, but in small quantities at a time. Consult medical attention if any symptoms develop.

If inhaled: Remove to fresh air. Observe for breathing difficulties. Consult medical advice if asthma-like symptoms develop. In case of inhalation of decomposition products in a fire, symptoms may be delayed. Medical surveillance for 48 hours may be necessary.

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lens. Get medical attention if irritation occurs.

Skin contact: Rinse with water. Consult medical advice if irritation develops.

Additional Info: No further information.

Section 5: Fire Fighting Measures

General Info: Use an extinguishing agent suitable to the surrounding fire.

Extinguishing Method / Equipment: None known

Hazardous Decomposition Info: Decomposition products may include the following: carbon dioxide; carbon monoxide, nitrogen oxides.

Section 6: Accidental Release Measures

Personal precautions, Non-emergency personnel and protective equipment: No action shall be taken involving any personal risk without suitable training. Evacuate surrounding area.

and procedures: Environmental precautions: Avoid dispersal of spilled material and runoff contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution.

Containment Equipment and Procedures: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled container. Dispose of via a licensed waste disposal contractor.

Cleanup Procedures: No specific measures.

Section 7: Handling and Storage

Safe Handling Use appropriate personal protective equipment, (see section 8).

Precautions:

Recommendations Eatin, drinking, and smoking should be prohibited in areas where this product is stored and
for Storage: handled. Wash hands and face before eating, drinking, or smoking.

Incompatibilities: Store in accordance with local regulations. Store in original containers protected from direct sunlight, in a cool, dry, and well-ventilated area away from incompatible materials (section 10), and food and drink. Keep container closed until ready for use. Do not store in unlabeled containers. Avoid environmental contamination.

Section 8: Exposure Control / Personal Protection

General / Good general ventilation should be adequate to control airborne contaminants.

Engineering Emissions from ventilation or work process equipment should be checked to ensure they comply

Controls: with the requirements of environmental protection legislation.

Work Clothing: Protective work clothing that prevents skin contact is suggested.

Eye/face protection: Utilize eye protection if eye contact is likely.

Skin Protection: Utilize work gloves as needed. Wear long-sleeve shirts and trousers where appropriate.

Respiratory Utilize dust mask or other respiratory protection as required to control exposure limits. See

Protection: Exposure Limits below.

Additional Observe good chemical hygiene practices.

Information:

Substance Name	OSHA PEL	ACGIH-TLV
Urea	R: (10mg/m3) TWA	10 mg/m3

Section 9: Physical and Chemical Properties

State: Solid

Melting Point: 134° C+
(273.2°F)

**Freezing NA
Point:**

Color: White

**Boiling NA
Point/Range:**

pH 7.2
Conc. 100g/L

Bulk Density: 1.33g/cm³

Odor: odorless

Water Solubility: Total, easily soluble.
100g/L

Evaporation rate: NA

Flash Point: NA

Part. Coeff (n-oct/water): NA

Section 10: Stability and Reactivity

General: Product is stable under normal conditions.

Incompatible materials: Reacts with Calcium Hypochlorite or Sodium Hypochlorite to form Nitrogen trichloride, and explosive agent.

Decomposition products: Carbon dioxide, carbon monoxide, nitrogen oxides.

Section 11: Toxicological Information

Toxicological Information (product): LD50 oral 14,300 mg/kg, rat) references IUCLID 5

Likely Routes of Exposure: Ingestion, inhalation.

Irritation: Excessive contact may result in irritation of eyes, skin, or mucous membranes.

Carcinogenicity or mutagenicity: Product is not a carcinogen or mutagen.

Sensitization: Product may cause sensitization.

Section 12: Ecological Information

General information: Product not tested. Not expected to pose an environmental hazard.

Aquatic toxicity: Not expected to have appreciable aquatic toxicity characteristics.

Degradation / Mobility info: No specific data available.

Bioaccumulative potential: No specific data available.

Toxicity

Product Name	Result	Species	Exposure	References
Urea	Acute LC50 6,810 mg/L Fresh water	Fish - Labeo boga	96 h	IUCLID 5
Urea	Acute EC50 10,000 mg/L Fresh Water	Aquatic invertebrates - Daphnia magna	24 h	IUCLID 5
Urea	Acute No observable effect concentration 47 mg/L fresh water	Aquatic plants	192 h	IUCLID 5

Product	LogPow	BCF	Potential
Urea	1.73	-	low

Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations.

Container disposal: No further information.

Section 14: Transport Information

DOT: Product is not classified as dangerous goods.

Section 15: Regulatory Information

TSCA: All components listed on the TSCA 8(b) inventory.

CERCLA RQ:

SARA 304 RQ: 1,000,000 lbs.

SARA 313 Not applicable.

California Prop 65 This product contains a chemical (or chemicals) known to the State of California to cause cancer

Substances: and birth defects or other reproductive harm.

Section 16: Other Information

SDS Author: Product Technical Dept.

Version Date:

6/12/2019

The provider of this SDS suggests that the buyer or user to study it carefully and consult with appropriate expertise, as necessary to become aware of and understand the information contained herein. No warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer or user's responsibility to ensure that its activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. It is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Information regarding the exact chemical identity or concentration of certain substances may be reserved as a trade secret as per 29 CFR 1910.1200(i).