



DUDA ENERGY LLC

## Safety Data Sheet Urea (Prilled)

### SECTION 1: Identification

#### 1.1 Product identifier

Product name	Urea (Prilled)
Product number	Unavailable
Brand	Unavailable
Substance name	UREA
EC no.	200-315-5
CAS no.	57-13-6

#### 1.2 Other means of identification

None

#### 1.3 Recommended use of the chemical and restrictions on use

Fertilizer, animal feed, plastics, chemical intermediate, stabilizer in explosives, medicine, adhesives, separation of hydrocarbons (as urea adducts), sulfamic acid production, flame proofing agents, viscosity modifier for starch, casein-based paper coatings, reported helpful in treatment of sickle-cell anemia, diuretic, and antiseptic.

#### 1.4 Supplier's details

Name	Duda Energy LLC
Address	1112 Brooks St. Decatur, AL 35601 USA
Telephone	256.340.4866
Fax	Unavailable
email	Unavailable

#### 1.5 Emergency phone number(s)

800.255.3924 (Chemtel)

### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

GHS classification in accordance with: UN GHS rev. 5

Not a hazardous substance or mixture.

## 2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

## 2.3 Other hazards which do not result in classification

None known

### Statement regarding ingredients of unknown toxicity

None

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name	UREA
EC no.	200-315-5
CAS no.	57-13-6
Formula	CH <sub>4</sub> N <sub>2</sub> O
Molecular weight	60.07
Other names / synonyms	CARBAMIMIDIC ACID; UREA
Impurities and stabilizing additives	N/A

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
If inhaled	Move to fresh air. Call a physician if symptoms develop or persist.
In case of skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
In case of eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
If swallowed	Rinse mouth. Get medical attention if symptoms occur.
Personal protective equipment for first-aid responders	N/A

### 4.2 Most important symptoms/effects, acute and delayed

Dust may irritate respiratory tract, skin, and eyes.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Water fog, foam, dry chemical powder, CO<sub>2</sub> (carbon dioxide)

### 5.2 Specific hazards arising from the chemical

During fire, gases that are hazardous to your health may be formed.

### 5.3 Special protective actions for fire-fighters

SCBA and full protective clothing must be worn in case of fire.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

#### Further information

None

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away from spills/leaks. Wear any appropriate protective equipment and clothing during clean-up.

### 6.2 Environmental precautions

Avoid release into the environment. Prevent spillage if safe to do so. Avoid discharge into drains, water courses, or onto the ground. Inform appropriate authorities of all environmental releases.

### 6.3 Methods and materials for containment and cleaning up

If you spill this chemical, you should dampen the solid spill material with water, then transfer the dampened material to a suitable container. Use absorbent paper dampened with water to pick up any remaining material. Seal your contaminated clothing and the absorbent paper in a vapor-tight plastic bag for eventual disposal. Wash all contaminated surfaces with a soap and water solution. Do not reenter the contaminated area until the Safety Officer (or other responsible person) has verified that the area has been properly cleaned.

#### Reference to other sections

None.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a well ventilated place. Store away from incompatible materials.

#### Specific end use(s)

None other than listed in Sect.1

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. UREA (CAS: 57-13-6)

TWA: 10 mg/m<sup>3</sup>

### 8.2 Appropriate engineering controls

If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear safety glasses with side shields.

#### Skin protection

Wear chemical resistant gloves. Wear long-sleeves to prevent dust exposure.

#### Body protection

See Skin Protection

#### Respiratory protection

Use a NIOSH/MSHA approved respirator where dust levels exceed exposure limits.

#### Thermal hazards

N/A

#### Environmental exposure controls

None other than general industrial hygiene.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Solid/Powder White
Odor	Ammonia-like
Odor threshold	N/A
pH	7.2 (10% Solution)
Melting point/freezing point	135°C
Initial boiling point and boiling range	No data available
Flash point	537.2°C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability limits	No data available
Vapor pressure	0.000002 kPa 25°C
Vapor density	No data available
Relative density	1.3230 @ 20/4 C
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	-2.11
Auto-ignition temperature	No data available

Decomposition temperature  
Viscosity  
Explosive properties  
Oxidizing properties

No data available  
No data available  
Not explosive.  
Not an oxidizer.

**Other safety information**

None available

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

This product is stable and non-reactive under normal conditions and processes.

**10.2 Chemical stability**

Material is stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reactions known under conditions of normal use.

**10.4 Conditions to avoid**

Contact with incompatible materials.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**

Oral

LD50

Rat: 8471 mg/kg

Sheep: 28500 mg/kg

**Skin corrosion/irritation**

Prolonged skin contact may cause temporary irritation.

**Serious eye damage/irritation**

Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

Not a respiratory nor skin sensitizer.

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic genotoxic.

**Carcinogenicity**

This product is not considered to be acarcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity**

This product is not expected to cause reproductive or developmental effects.

**Summary of evaluation of the CMR properties**

N/A

**STOT-single exposure**

Not classified

**STOT-repeated exposure**

Not classified

**Aspiration hazard**

Not an aspiration hazard

**Additional information**

None

## SECTION 12: Ecological information

**Toxicity**

Aquatic

Crustacea: EC50 Water Flea (*Daphnia magna*) 3910 mg/l 48hrs

Fish: LC50 Giant Gourami (*Colisa fasciata*) 5 mg/l 96hrs

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

No data available

**Other adverse effects**

No other adverse environmental effects are expected from this product.

## SECTION 13: Disposal considerations

**Disposal of the product**

This material should be disposed of in accordance with all applicable laws and regulations.

**Disposal of contaminated packaging**

Emptied and contaminated packaging should be disposed of as the material itself.

**Waste treatment**

Waste material should be gathered and disposed of in accordance with all applicable laws and regulations.

**Other disposal recommendations**

None

**SECTION 14: Transport information**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations specific for the product in question**

**California Prop. 65 Components**

This material is not known to contain any chemicals listed as carcinogens or reproductive toxins.

**Massachusetts Right To Know Components**

Not regulated

**New Jersey Right To Know Components**

Not listed

**Pennsylvania Right To Know Components**

Not listed

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 311/312 Hazards**

No SARA Hazards

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**15.2 Chemical Safety Assessment**

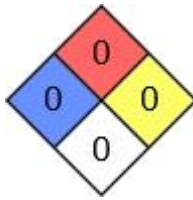
N/A

**HMIS Rating**

UREA
HEALTH
0

<b>FLAMMABILITY</b> 0
<b>PHYSICAL HAZARD</b> 0
<b>PERSONAL PROTECTION</b>

**NFPA Rating**



## SECTION 16: Other information

### 16.1 Further information/disclaimer

The information provided in this Safety Data Sheet is correct to the best of Duda Energy LLC's knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This Safety Data Sheet only contains information relating to safety and does not replace any product information or product specification. Please note, the content may be changed, corrected, or deleted at any time without notice and may not always necessarily reflect the most current data. Duda Energy LLC will assume no responsibility for any trouble or failure caused by the errors in the information provided, nor any damage associated with the usage of the information.

### 16.2 Preparation information

Version: 2  
Revised: 04-13-2017