

**Safety Data Sheet** 

# Urea, Prilled, Crystal, ACS

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Urea, Prilled, Crystal, ACS

Synonyms/Generic Names: Carbamide

Product Number: 5990

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc. N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30) www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

Signal Words: None

Pictograms: None

#### **GHS Classification:**

None

#### GHS Label Elements, including precautionary statements:

Hazard Statements:

None

#### Precautionary Statements:

None

#### **Potential Health Effects**

Eyes	May cause eye irritation.	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.	
Skin	May be harmful if absorbed through skin. May cause skin irritation.	
Ingestion	May be harmful if swallowed.	

N	NFPA Ratings		
	Health	1	
	Flammability	1	
	Reactivity	0	
	Specific hazard	Not Available	

H	HMIS Ratings		
	Health	1	
	Fire	1	
	Reactivity	0	

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Urea	>98	57-13-6	200-315-5	CH <sub>4</sub> N <sub>2</sub> O	60.06 g/mol

# **4. FIRST-AID MEASURES**

Eyes	In case of eye contact, rinse with plenty of water and seek medical attention if necessary.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not
	breathing, give artificial respiration. Get medical attention if necessary.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated
	clothing and wash using soap. Get medical attention if necessary.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If
	conscious, wash out mouth with water. Get medical attention if necessary.

### **5. FIREFIGHTING MEASURES**

Suitable (and unsuitable) extinguishing media	Product may be flammable at high temperatures. Use appropriate media for adjacent fire. Cool unopened containers with water.
Special protective equipment and precautions for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides, nitrogen oxides) under fire conditions. (See also Stability and Reactivity section).

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	See section 8 for recommendations on the use of personal protective
protective equipment and emergency procedures	equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Cleanup personnel need personal protection from inhalation and skin/eye contact. Evacuate and ventilate the area. Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Provide appropriate exhaust ventilation at places where dust is formed.

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

Keep container tightly closed in a dry and well ventilated place.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Urea	10 mg/m <sup>3</sup>	WEEL	USA

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

#### Personal Protection

Eyes	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.
Inhalation	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH.
Skin	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the workplace.
Other	Not Available

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	White crystals to white powder
Odor	Ammonia odor in presence of moisture.
Odor threshold	Not Available
рН	7.5-9.5 at 480 g/l at 25°C (77°F)
Melting point/freezing point	133°C (271°F)
Initial boiling point and boiling range	Not Available
Flash point	Flammable in presence of heat
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available

Upper/lower flammability or explosive limit	Not Available
Vapor pressure	0.009 hPa (0.007 mmHg) @ 20°C (68°F)
Vapor density	2.07
Relative density	Not Available
Solubility (ies)	480 g/l at 20°C (68°F)
Partition coefficient: n-octanol/water	Log Pow: -2.591.59
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

# **10. STABILITY AND REACTIVITY**

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Heat, moisture.
Incompatible Materials	Sources of ignition, oxidizing agents.
Hazardous Decomposition	Carbon oxides, nitrogen oxides.
Products	

# **11. TOXICOLOGICAL INFORMATION**

#### Acute Toxicity

Skin	Skin – rabbit – No skin irritation
Eyes	Eyes – rabbit – No eye irritation
Respiratory	Not Available
Ingestion	LD50 Oral – rat – 8471 mg/kg

#### Carcinogenicity

<u> </u>			
IARC	No component of this product present at levels greater than or equal to 0.1% is identified		
	as probable, possible or confirmed human carcinogen by IARC.		
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified		
	as a carcinogen or potential carcinogen by ACGIH.		
NTP	No component of this product present at levels greater than or equal to 0.1% is identified		
	as a known or anticipated carcinogen by NTP.		
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified		
	as a carcinogen or potential carcinogen by OSHA.		

### Signs & Symptoms of Exposure

Eyes	May cause eye irritation.	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.	
Skin	May be harmful if absorbed through skin. May cause skin irritation.	
Ingestion	May be harmful if swallowed.	

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Genotoxicity in vitro – mouse – lymphocyte: DNA damage
	Genotoxicity in vivo – mouse – Oral: Cytogenetic analysis
Embryotoxicity	Not Available
Specific Target Organ	Not Available
Toxicity	

# 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Aquatic Vertebrate	LC50 – Poecilia reticulate (guppy) – 17500 mg/l – 96 hours		
Aquatic	EC50 – Daphnia magna (Water flea) – 3910 mg/l – 48 hours		
Invertebrate			
Terrestrial	Not Available		

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

### 13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

### **14. TRANSPORTATION INFORMATION**

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

# **15. REGULATORY INFORMATION**

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Rhode Island: Hazardous Substance List	Not Listed
Massachusetts: Toxic or Hazardous Substance List,	Not Listed
Right to Know	
Pennsylvania: Hazardous Substance List	Not Listed
New Jersey: Right to Know Hazardous Substance	Not Listed
List	
SARA 302	Not Listed
SARA 304	Not Listed

SARA 311	No SARA Hazards
SARA 312	No SARA Hazards
SARA 313	Not Listed
WHMIS Canada	Listed: Not Classified

### **16. OTHER INFORMATION**

Revision	Date
Original	8/02/2011
Revision 1	08/02/2021

Disclaimer: The information provided in this Safety Data Sheet ("SDS") is correct to the best of our knowledge, information, and belief at the date of publication. The information in this SDS relates only to the specific Product identified under Section 1, and does not relate to its use in combination with other materials or products, or its use as to any particular process. Those handling, storing, or using the Product should satisfy themselves that they have current information regarding the particular way the Product is handled, stored or used and that the same is done in accordance with federal, state and local law. WE DO NOT MAKE ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE. WE DO NOT ASSUME RESPOSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, INJURY, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.