



American Plant Food Corp
903 MAYO SHELL ROAD / PO Box 584
GALENA PARK, TEXAS 77547
PHONE NUMBER 800-634-2861

Safety Data Sheet
Urea 46-0-0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Urea 46-0-0
Chemical Name: Mixture of Inorganic Salts
Guaranteed Analysis 46% N, 0% P₂O₅, 0% K₂O
CAS Registry Number: Not Applicable
Product Use: Dry Fertilizer For Soil Application to Improve Plant Growth
Supplier: American Plant Food Corp. 903 Mayo Shell Rd, Galena Park, TX 77802
Telephone: 800-634-2861
Emergency Phone #s: **FOR CHEMICAL EMERGENCY**
(Spill, Leak, Fire, Exposure or Accident) (800) 424-9300 CHEMTREC
FOR MEDICAL/HANDLING EMERGENCIES
INFOTRAC USA: (800) 424-9300 CHEMTREC

2. SIGNAL WORD: WARNING



Irritant

EMERGENCY OVERVIEW (800) 424-9300 CHEMTREC. Not flammable or explosive, but will decompose in extreme heat to produce toxic fumes of oxides of ammonia.

MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION.

- Avoid contact with skin and clothing. Wash after handling.
- Wear appropriate personal protective equipment. (See Section 8 for additional information)

Appearance and odor: Mixture of white, grey and red granules

POTENTIAL HEALTH EFFECTS (See Section 11 for additional information)

Primary Route (s) of Exposure: Dermal Contact, Eye Contact, Inhalation, Ingestion
Acute Exposure:

- Inhalation No known significant effects or critical hazards
- Eye Contact Irritating to eyes
- Skin Contact Practically non-toxic in contact with skin. Irritation to skin.
- Ingestion Practically non-toxic if swallowed.

Carcinogenicity: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Chronic Effect/Developmental Repeated skin exposure can produce local skin destruction or dermatitis. Repeated exposure to the eyes to a low level of dust can produce eye irritation.
Medical Conditions Aggravated: Skin conditions, Eye conditions, Gastrointestinal condition



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POTENTIAL ENVIRONMENTAL EFFECTS (See Section 12 for additional information)

This material is a water pollutant. Do Not let spilled or leaking material enter waterways.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients (See Section 8 for Exposure Limits)	% (w/w)	CAS Number	Air Threshold Limit Value
Urea	100%	57-13-6	15.00mgCO(NH ₂) ₂ /m ³

4. FIRST AID MEASURES

- Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. Get medical attention.
- Eye Contact:** Check for and remove any contact lenses. Rinse immediately with plenty of water. Get medical attention.
- Skin Contact:** Wash with soap and water. Get medical attention if symptoms occur.
- Ingestion:** Do Not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

5. FIRE FIGHTING MEASURES

- Conditions of Flammability:** Non Flammable
- Flash Point (Method):** N/A
- Auto-Ignition Temperature:** N/A
- Extinguishing Media:** This product is not flammable or combustible. If involved in a fire, use water fog or spray, dry chemical, foam or carbon dioxide extinguishing agents.
- Fire Fighting Procedures:** Wear self-contained breathing apparatus, approved by NIOSH. Do not wash material into any streams, waterways, drainage ditches, or storm sewers, etc. Impound liquids used in firefighting to prevent entry into streams, ditches, sewers, etc.
- Fire & Explosion Hazards:** Not flammable or explosive.
- Hazardous Combustion Products:** Oxides of nitrogen, phosphorus and potassium. Ammonia

	Health:	Fire:	Reactivity:	Other:
NFPA Hazard Rating	1	0	0	None
[0 – Minimal 1 – Slight 2 – Moderate 3 – High 4 – Extreme]				

6. ACCIDENTAL RELEASE MEASURES

- Spill/Leak:** Safely stop source of spill. Restrict non-essential personnel from area. All personnel involved in spill clean up should avoid skin and eye contact by wearing appropriate personal protective equipment.



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Cleanup: Sweep up spilled solid material, being careful not to create dust. Return sweepings to stock or, if contaminated, place into a chemical waste container for disposal according to local, state, and/or federal regulations.

7. HANDLING AND STORAGE

Store in cool, dry, well-ventilated area away from incompatible substances. Protect from physical damage. Avoid generating dust and the release of dust into the workplace. Refrain from eating, drinking, or smoking in work areas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Applicable Exposure Limits:

Chemical Name	OSHA – PELS (mg / m ³)		ACGIH – TLVs (mg / m ³)		NIOSH – RELS (mg / m ³)	
	TWA	STEL/CEIL (C)	TWA	STEL/CEIL (C)	TWA	STEL/CEIL (C)
Urea	15 Total 5 Respirable	N/D	N/D	N/D	N/D	N/D

Legend:

CEIL:	Ceiling Exposure Limit	PEL:	Permissible Exposure Limit
STEL:	Short Term Exposure Limit	REL:	Recommended Exposure Limit
N/D	Not Determined	TLV:	Threshold Limit Value
ACGIH:	American Conference of Governmental Industrial Hygienists	TWA:	Time-Weighted Average
NIOSH:	National Institute for Occupational Safety and Health	WEEL:	Workplace Environmental Exposure Level
OSHA:	Occupational Safety and Health Administration		

Personal Protective Equipment (PPE)

- **Protective Clothing:** The hazard potential of this material is low. Where there is large-scale use of this material and significant potential for worker contact, gloves and long sleeved work clothes or disposable coveralls may be necessary. Eye protection should be worn where dust is generated and there is a potential that eye contact may occur.
- **Ventilation:** Use adequate local or general ventilation where necessary to maintain the concentrations of dust well below the recommended occupational exposure limits for general particulates. Not Otherwise Specified (NOS).
- **Respirators:** Where dust is generated and cannot be controlled to within acceptable levels by engineering means, use appropriate NIOSH-approved respiratory protection equipment a 42CFR84 Class N, R or P-95 particulate filter cartridge.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance/Odor:	Solid White particles
Boiling Point:	N/A
Bulk Density:	57-65 lbs./cubic foot
Cloud Point:	N/A
Evaporation Rate (Butyl Acetate=1):	N/A
Melting Point:	N/A
Odor Threshold:	N/A
pH:	7-8
Partition Coefficient (n-octanol/water):	N/A
Pour Point:	N/A
Solubility in water:	85-95% Soluble in Water
Solubility in other solvents:	N/A



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Specific Gravity (H ₂ O = 1) :	N/A	
Vapor Density (Air = 1):	N/A	
Viscosity:	N/A	
Volatiles (% by weight) :	N/A	
Other-Decomposition temperature	135 degrees C	
Conditions of Flammability:	Non Flammable	
Flash Point (Method):	N/A	
Upper Flammable Limit (% by volume)	N/A	
Lower Flammable Limit (% by volume):	N/A	
Auto-Ignition Temperature	N/A	
<: less than	>: greater than	= : approximately

10. STABILITY AND REACTIVITY

Stability:	This product is stable at ambient temperatures and atmospheric pressures.
Incompatibilities/Conditions to avoid:	Incompatible with halogens, hydrogen peroxide, chlorinated hydrocarbons, fluorine, nitric acid, oxidizing agents and sulfuric acid.
Decomposition Products:	Ammonia. Oxides of Nitrogen, Phosphorous, and Potassium.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA

Ingredient Name	TEST	RESULT	ROUTE	SPECIES
Urea	LD50	8471 mg/kg	ORAL	RAT

GENERAL:	The form in which this material is sold is considered to be relatively non-toxic.
SKIN/EYE:	Direct contact may cause local irritation, but is not expected to cause significant tissue damage.
INHALATION:	Acute inhalation may result in irritation, but is not expected to cause significant harmful effects. Symptoms may include discomfort, coughing, sneezing, and shortness of breath.
INGESTION:	Ingestion of large doses can irritate the stomach, resulting in abdominal pain, nausea, diarrhea, and vomiting.



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12. ECOLOGICAL INFORMATION

Ecotoxicity:	Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
	Urea	Not listed	LC50: 16200 - 18300 mg/L, 96h (Poecilia reticulata)	= 23914 mg/L EC50 Photobacterium phosphoreum 5 min	EC50: > 10000 mg/L, 24h (Daphnia magna Straus) EC50: = 3910 mg/L, 48h

Environmental Fate: Product is not expected to bio accumulate. Release of components in this mixture to the aquatic environment can cause algae growth which may increase turbidity and displace oxygen resulting in a hazard to fish or other marine organisms. Will disperse with the current. Release to watercourses may cause effects down stream from the point of release. Avoid spills or release to watercourse.

13. DISPOSAL CONSIDERATIONS

Waste & Container Disposal: Do not wash down drain. Put uncontaminated material back into process if at all possible. Place contaminated material in suitable, labeled containers for disposal. Dispose of waste material consistent with the requirements of waste disposal authorities.

14. TRANSPORT INFORMATION

Shipping Information:	Not regulated for transport
Required Labels:	N/A
Environmentally Hazardous Substances [49 CFR 172.101, Appendix A]:	N/A

15. REGULATORY INFORMATION

Regulatory Lists:		
Ingredients listed on TSCA inventory	Yes	
Hazardous work hazard communication standard	No	
CERCLA Section 103 Hazardous Substances	No	
EPCRA Section 302 Extremely Hazardous Substance	No	
EPCRA Section 311/312 Hazard Categories	No	
EPCRA Section 313 Toxic Release Inventory	No	



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16. OTHER INFORMATION

Prepared by: Technical Staff	American Plant Food Corp. 903 Mayo Shell Rd, Galena Park, TX 77802 Telephone: 800-634-2861
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Date of First Issue:	8/16/2019	Revision Number:	N/A
Revision Date:	N/A	Changes:	N/A