

SAFETY DATA SHEET

	SECTION 1: Identification of the	substance/mixture and of the compare	ny/undertaking
1.1 Product identifiers			
Pro	oduct name	: Urea	
CAS	S number	: 57-13-6	
Syn	nonyms	: Urea Granular, Urea Prills, Urea Pastille	
1.2 Relevant identified uses of the substance or mixture and uses advised against			ainst
Use	ntified uses s identified against tails of the supplier of the safety (: Fertilizer. Manufacture of chemical produ : None lata sheet	ucts
Cor	npany	: Lab Alley, LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 U.S.A.	
Tele Fax	ephone	: 512-668-9918 : 512-886-4008	
1.4 Em	nergency telephone		
Em	ergency Phone #	: US & Canada: 1-800-535-5053 International 1-352-323-3500	INFOTRAC INFOTRAC
	SECTIO	DN 2: Hazards identification	
2.1 Cla	assification of the substance or m	ixture	
GH	IS Classification in accordance w	th 29 CFR 1910 (OSHA HCS)	
Thi	s chemical is not considered hazardous	by the 2012 OSHA Hazard Communication	Standard (20 CER 1010 120)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 GHS Label elements, including precautionary statements

Pictogram	Non required
Signal Word	None identified
Hazard statement(s)	No known significant effects or critical hazards
Precautionary statemen	t
General	Read label before use, keep out of reach of children, if medical advice is needed, have product container or label at hand.
Prevention	Not applicable
Response	Not applicable
Storage	Not applicable
Disposal	Not applicable
Supplemental label elen	nents None known
Other hazards	None known

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified

SECTION 3: Composition/information on ingredients

Components 3.1

Chemical name	Common name and synonyms	CAS number	Concentration
Urea		57-13-6	97.5 - 99.7 w/w%
Urea reaction products with formaldehyde		68611-64-3	0 - <1.5 w/w%
Imidodicarbonic diamide		108-19-0	<1.5 w/w%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice	
If inhaled	Remove to fresh air. Get medical attention immediately if symptoms occur
	If not breathing, give artificial respiration
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes.
	Get medical attention immediately if symptoms occur
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at
-	least 15 minutes. If symptoms persist, call a physician
If swallowed	Do NOT induce vomiting. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed Eye contact No significant effects or critical hazards Inhalation No significant effects or critical hazards Ingestion No significant effects or critical hazards Skin contact No significant effects or critical hazards

4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Substance is nonflammable; use agent most appropriate to extinguish surrounding Unsuitable extinguishing media No information available

5.2 Specific hazards arising from the substance or mixture

Incompatible with halogens. If mixed with chlorine or hypochlorites, it may form nitrogen trichloride which may explode spontaneously in air

5.3 Special protective equipment and precautions for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Fire fighters should wear appropriate protective equipment and seld contained breathing apparatus SCBA with a full face piece operated in positive pressure mode. 5.4 Further information

Contain and collect the water used to fight the fire for later treatment and disposal.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation.

Avoid ingestion and inhalation. Avoid contact with skin, eyes or clothing. Avoid dust formation. Protect from moisture. Hygiene measures

Workers should wash hands and face before eating, drinking and smoking. Remove contamintaed clothing

and protective equipment before entrering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials. Donot store in unlabeled containers. Incompatibilities Strong oxidizing agents

8. Exposure controls/personal protection

8.1 Occupational exposure limits

Component	Туре	Value
Urea	PNOR	15mg/m3

US. ACGIH Threshold Limit V	/alues
0	Terr

Component	Туре	Value

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Туре	Value

Biological occupational exposure limits

Component	Туре	Value

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should besufficcient to control worker exposure to airborne contaminats.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection

Personal protective equiment for the body should be selected based on the task being performed and the risks involved and should be approved by a speciaist before handling product. Cotton ot cotton/synthetic overalls or coveralls are normally suitable.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respitratory protection program to ensure proper fitting, training and other important aspects of use.

Control of environmental exposure

Emission from ventilation or work process equipment should be checked to ensure they comply with the reuirements of environemntal protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equiment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Appearance Odor Odor Thresh pH Melting Point/Range Boiling Point/Range Evaporation Rate Flammability (solid) Flammability or explosive	e limit	stance. Non-combustible	
	Upper	No data available	
	Lower	No data available	
Vapor Pressure	0 kPa () mm Hg at i	room temperature)	
Vapor Density	No data available		
Density	2.31		
Solubility	Easily soluble in wa	ater : 1193g/L @ 25°C	
Partition coefficient; n-oc	Partition coefficient; n-octanol/water		
Autoignition Temp	No data available		
Decomposition Temp	135°C		
Viscosity	No data available		
Molecular Formula	C2H2Cl2O2		
Molecular Weight	128.94	ļ.	

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Incompatible with halogen, hydrogen peroxide, chlorinated hydrocarbons, fluorine, nitric acid, oxidizing agents and sulfurinc acid.

10.2 Chemical stability

Stable under proper conditions.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use hazardous reactions will not occur.

10.4 Conditions to avoid

Absorbs moisture on long-term storage under high humid conditions Decomposes on heating. Store in a dry, cool and well ventilated area, away from incompatible materials.

10.5 Incompatible materials

See 10.1

10.6 Hazardous decomposition products

Under normal conditions of storage and use hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
	Rat	8471 mg/kg	No data available	No data available		
Conclusion: Very low toxicity to humans and animals. Effects are not sufficient for classification as hazardous.						

Skin corrosion/irritation

May cause slight transient irritation. Inorganic salt. Prolonged or repeted exposure may dry the skin, causing irritation. Effects are not sufficient for classification as hazardous.

Serious eye damage/eye irritation

No known significant effects or critical hazards. May cause irritation due to mechanical action.

Respiratory or skin sensitization No sensitizer to skin or lungs

Germ cell mutagenicity No mutagenic effect

Carcinogenicity No significant effects ot critical hazards.

Reproductive toxicity Not available

Specific target organ toxicity - single exposure Not available

Specific target organ toxicity - repeated exposure Not available

Chronic effects No data available

Tetratogenicity Not available

Aspiration hazard Not available

11.2 Additional Information

No data available

12. Ecological information

12.1 Toxicity

Excessive nutrient runoff to a body of water may results in eutrophication.

12.2 Persistence and degradability Readily biodegradable

12.3 Bio accumulative potential

Low

LogPow < - 1.73

 12.4 Mobility in soil
 0.037

 Soil/wate partition coefficcient
 0.037

- **12.5 Results of PBT and vPvB assessment** No data available
- 12.6 Endocrine disrupting properties No data available

12.7 Other adverse effects

No know significant effects or critical hazards

Product	Exposure	Species	Test Results

Persistence and Degradability

No data available

Bioaccumulation/ Accumulation

No data available

Mobility No data available

Other adverse effects

No data available

13. Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. Disposal of container: Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport information

DOT (US)

Packaging Group -Environmental hazards No

UN number:	Not regulated
Proper shipping name:	-
Hazard Class	-
Subsidiary risk	-
Packaging Group	-
Environmental hazards	No
IMDG	
UN number:	Not regulated
	. tot rogalatoa
Proper shipping name:	-
Proper shipping name: Hazard Class	- -

ΙΑΤΑ		
UN number:	Not regulated	
Proper shipping name: Hazard Class	-	
Subsidiary risk	-	
Packaging Group	-	
Environmental hazards	No	
	SECTION 15: Regulatory info	ormation
JS federal regulati This produ	ict is a "Hazardous Chemical" as defined by	
	R Exempt/partial exemption.	Not determined
TSCA Section 8(b) A	ctive Inventory	This material is listed or exempted.
CERCLA Hazardous S Not availa	Substance List (40 CFR 302.4) ble	
SARA 304 Emergency Not applic		
OSHA Specifically Re Not availa	gulated Substances (29 CFR 1910.1001-1 ble	053)
	Reauthorization Act of 1986 (SARA)	
SARA 302 Extremely Not applic		
SARA 311/312 Hazard	ous	
Not applic		
SARA 313 (TRI report	ing)	
Not availa	•	
Other federal regulations		
Clean Air Act (CAA) S Not listed	ection 112 Hazardous Air Pollutants (HAF	Ps) List
Clean Air Act (CAA) S Not listed	ection 112(r) Accidental Release Prevent	ion (40 CFR 68.130)
Safe Drinking Water A Not availa		
FEMA Priority Substa Not availa	nces Respiratory Health and Safety in the ble	e Flavor Manufacturing Workplace
Food and Drug Admir	istration (FDA)	
Total food		
Direct foo GRAS foo		
US state regulations US. Massachusetts R	TK - Substance List	
	e components are listed	
	·	
-	er and Community Right-to-Know Act e components are listed	
	·	
-	rker and Community Right-to-Know Law e components are listed	
US. Rhode Island RTI	< c	
Not availa		
Colifornia Brana-itia	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
California Proposition This product as manufa	ס ו actured doesnot contain any substance in co	oncentrations known to the
state of California to ca	use cancer, birth defects or other reproduct	ive harm. Lab alley cannot

guarantee the downstream compliance of any product once out of the Lab Alley custody.

International Inventories

ΙΑΤΑ

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL)

SECTION 16: Other information

Revision date: 12/11/2023 Revision number: 1

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.