

SAFETY DATA SHEET

Creation Date 25-Jun-2014

Revision Date 1-Jun-2023

Revision Number 1

1. Identification								
Product Name Urease								
Cat No. :	C8480							
Synonyms Urea Amidohydrolease; Jack Bean Urease								
Recommended Use	aboratory chemicals.							
Uses advised against Details of the supplier of the safet	No Information available y data sheet							
Company Lab Alley LLC 22111 Highway 71 West, Suite 601	Emergency Telephone Number Infotrac: 800-535-5053							

Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel.: 512-668-9918

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Respiratory Sensitization	Category 1
Specific target organ toxicity (single exposur	e) Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word Danger

Hazard Statements

Causes skin irritation Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

In case of inadequate ventilation wear respiratory protection

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients Component CAS-No Weight % 9002-13-5 99+ Urease 4. First-aid measures Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention. Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required. Do not induce vomiting. Call a physician or Poison Control Center immediately. Ingestion Most important symptoms/effects No information available. Notes to Physician Treat symptomatically 5. Fire-fighting measures **Suitable Extinguishing Media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **Unsuitable Extinguishing Media** No information available

Flash PointNo information availableMethod -No information available

Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) Nitrogen oxides (NOx)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2	Flammability 0	Instability 1	Physical hazards N/A							
	6. Accidental re	lease measures								
Personal Precautions	Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.									
Environmental Precautions	0	Avoid release to the environment.								
Methods for Containment and Clea Up		ning apparatus and protective sable container for disposal. Avoi								
	7. Handling	and storage								
Handling	Use only under a chemica	l fume hood. Wear personal pro dust. Do not get in eyes, on skir								
Storage	Keep containers tightly clo	sed in a dry, cool and well-vent	lated place.							
8. Exposure controls / personal protection										
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.									
Engineering Measures		I fume hood. Ensure adequate v sh stations and safety showers a	ventilation, especially in confined are close to the workstation							
Personal Protective Equipment										
Eye/face Protection		re eyeglasses or chemical safet ection regulations in 29 CFR 19								
Skin and body protection Respiratory Protection	Follow the OSHA respirate EN 149. Use a NIOSH/MS	re gloves and clothing to preven or regulations found in 29 CFR 1 HA or European Standard EN 1 ded or if irritation or other sympt	910.134 or European Standard 49 approved respirator if							
Hygiene Measures		good industrial hygiene and sa								
(9. Physical and ch	emical properties								

9. Physical and chemical properties

Physical State Appearance Odor Odor Threshold pH Solid Off-white Odorless No information available No information available

Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits Upper
Lower
Vapor Pressure
Vapor Density
Relative Density
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition temperature
Viscosity

No data available No information available No information available No information available No information available

No data available No data available No information available No information available No information available Soluble in water No data available No information available No information available No information available

10. Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Stable under normal conditions. Moisture sensitive.					
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture.					
Incompatible Materials	Strong oxidizing agents					
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx)					
Hazardous Polymerization Hazardous polymerization does not occur.						
Hazardous Reactions	None under normal processing.					

11. Toxicological information

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Acute Toxicity							
Product Information Component Information	No acute toxicity information is available for this product						
Toxicologically Synergistic	No information available						
Products							
Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Irritation	Irritating to eyes, respiratory system and skin						
Sensitization	May cause sensitization by inhalation						
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.						

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
Urease	9002-13-5	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information available						
Reproductive Effects No information available.								
Developmental Effe	cts	No information available.						
Teratogenicity		No information available.						
STOT - single exposision STOT - repeated ex		Respiratory system None known						
Aspiration hazard		No information available						

Symptoms / effects, both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.
	12. Ecological information

<u>Ecotoxicity</u> Do not empty into drains.

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.
Mobility	No information available.

 Use 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.

14. Transport information					
DOT	Not regulated				
DOT TDG IATA	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				
15. Regulatory information					

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Urease	Х	Х	Х	232-656-0	-		Х	-	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Yes
Yes
No
No
No

Clean Water Act

Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals
State Right-to-Know	Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

D2A Very toxic materials D2B Toxic materials

Regulatory Affairs Lab Alley LLC



16. Other information

Email: customerservice@laballey.com

Prepared By

Creation Date Revision Date Print Date Revision Summary 25-Jun-2014 1-Jun-2023 1-Jun-2023 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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.

