

Urea 6M Solution

Safety Data Sheet According to Regulation (EC) 1272/2008 Issue Date: 10/15/21

SECTION 1 - Chemical Product and C	Company Identification	
1.1 Product Identifiers		
Product Name CAS # EC# RTECS#	 Urea 6M Solution 57-13-6 200-315-5 YR6250000 	
1.2 Recommended Use of the Chemical a	nd Restrictions of Use	
Chemical manufacturing		
1.3 Supplier Details		
Supplier	: BioSpectra Inc. 100 Majestic Way Bangor, PA 18013 T: 610.599.3400 <u>ehs@biospectra.us</u>	
1.4 Emergency Numbers		
Emergency Numbers	: US & Canada: 1-800-424-9300 Outside the US & Canada: +1 703-527-38	87
SECTION 2 – Hazard Identification		
2.1 Classification of the Substance or Mi	xture	
GHS Classification in accordance with 2	9 CFR 1910 and Regulation (EC) No 1272/2008 (EU-GHS/CLP)
Not Classified as a Hazardous Substance.		
2.2 GHS Label Element Including Preca	utionary Statements	
Not Classified as a Hazardous Substance.		
2.3 Hazards not Classified or not Covere	d by the GHS	
Not Applicable		
SECTION 3 - Composition, Information	on on Ingredients	
3.1 Substances		
Synonyms Formula Molecular Weight	 Carbamide Solution, Carbonyl Diamide Solution NH₂CONH₂ 60.06 g/mol. 	
Component	Classification	Concentration
Urea	Not Classified as a Hazardous Substance	25-35%
Water	Not Classified as a Hazardous Substance	65-75%

SECTION 4 - FIrst Ald Meas	lures		
4.1 Description of Necessary First Aid Measures			
Eyes	: Immediately flush eyes with tepid water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation persists.		
Skin	: Immediately flush exposed area with tepid water for at least 15 minutes.		
Ingestion	: Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person. If victim is conscious wash out mouth with water. Get medical attention		
Inhalation	: Remove from exposure to fresh air immediately. If not breathing provide artificial respiration. If breathing is difficult supply oxygen. Get immediate medical attention.		

4.2 Most Important Symptoms/Effects, Acute and Delayed

Refer to Section 2.2 for Precautionary Statements, if applicable.

4.3 Indication of Immediate Medical Attention and Special Treatment

Not Applicable.

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

Substance is not flammable, use media most appropriate to extinguish surrounding fire.

5.2 Specific Hazards Associated with this Chemical

Carbon oxides, Nitrogen oxides (NOx), Ammonia, Nitrous gases.

5.3 Special Equipment/Precautions for Firefighters

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

5.4 Other Information

Not Applicable.

SECTION 6 - Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Use proper personal protective equipment as indicated in Section 8.

6.2 Environmental Precautions

Do not allow to enter drains. Do not discharge to the environment.

6.3 Methods and Materials for Containment and Cleaning Up

Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation

6.4 Other Information

See Section 13 for disposal considerations.

SECTION 7 - Handling and Storage

7.1 Precautions for Safe Handling

Use with adequate ventilation.

7.2 Conditions for Storage Including any Incompatibilities

Store in a tightly closed container. Store in a dry, well-ventilated area with temperature between 15-30°C. Store away from incompatible substances.

7.3 Other Information

Not Applicable.

SECTION 8 - Exposure Controls, Personal Protection

8.1 Control Parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

8.2 Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Personal Protective Measures

Eyes

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

Wear appropriate gloves to prevent skin exposure. Wear impervious gloves: Nitrile rubber with layer thickness 0.11mm.

Clothing

Wear appropriate impervious protective clothing to minimize contact with skin.

Respirators

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Where protection from nuisance levels of dust are desired use type N95 (US) or type P1 (EN143) dust masks.

SECTION 9 - Physical and Chemical Properties

9.1 Physical and Chemical Property Information

Physical and Chemical Property Information

Appearance	:	Clear Liquid
Odor		Ammonia-like
Odor threshold	:	Not Applicable
pH	:	7.5-9.5 (10% aq solution)
Melting Point/Freezing Point	:	No Data Available
Initial Boiling Point and Boiling Range	:	No Data Available
Flash Point	:	No Data Available
Evaporation Rate		No Data Available
Flammability		No Data Available
Upper/lower Flammability or Explosive limits		No Data Available
Vapor Pressure		No Data Available
Vapor Density	:	No Data Available
Relative Density	:	No Data Available
Water Solubility	:	209 g/L @ 20°C (solid)
Partition Coefficient: n-octanol/water		No Data Available
Auto Ignition Temperature		No Data Available
Decomposition Temperature		No Data Available
Viscosity	:	No Data Available
Explosive Properties	:	No Data Available
Oxidizing Properties	:	No Data Available

SECTION 10 - Stability and Reactivity	
10.1 Chemical Stability	
Stable under normal conditions of use and storage	ge.
10.2 Conditions to Avoid	
Excess heat, incompatibles.	
10.3 Incompatibilities with Other Materials	
Strong oxidizers, strong bases.	
10.4 Hazardous Decomposition Products: Oco	aurs Under Fire Conditions
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No Data Available	
SECTION 11 - Toxicological Information	
11.1 Toxicological Effects	
LD50/LC50 Carcinogenicity Epidemiology Teratogenicity Reproductive Effects Neurotoxicity Mutagenicity Specific target organ toxicity -single exposure Other Studies	 LD50: Oral - rat ->2.000 mg/kg (solid). Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. No Data Available.
11.2 Additional Information	
RTECS	: YR6250000
To the best of our knowledge the associated phy	sical, chemical and toxicological properties of this chemical have not undergone

SECTION 12 - Ecological Information

thorough investigation, all known information is contained in this SDS.

12.1 Ecotoxicity

Avoid release to the environment. Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and Degradability

No Data Available

12.3 Bioaccumulative Potential

No Data Available

12.4 Mobility in Soil

No Data Available

12.5 Result of PBT and vPvB Assessment

PBT/vPvB Assessment not available, chemical safety assessment not required/conducted.

12.6 Other Adverse Effects

Not Applicable.

SECTION 13 - Disposal Considerations

13.1 Disposal Methods

Dispose of in a manner consistent with Federal, State, and Local Regulations. Do not discharge to drains, sewage systems, or the environment.

Regulations	US DOT	IATA	IMDG	ADR
Shipping Name				
Hazard Class	Not	Not	Not	Not
UN Number	Dangerous Goods	Dangerous Goods	Dangerous Goods	Dangerous Goods
Packing Group				
Section 15 - Regulatory Information	1			
15.1 Safety, Health and Environmental	Regulations/Legis	lation Specific for the S	Substance or Mixture	
TSCA	: CAS# 11	32-61-2 is listed on the	TSCA inventory.	
SARA:				
SARA 302	: Not subject to reporting requirements of SARA Title III, Section 302.			
SARA 313	: Not Applicable.			
SARA 311/312	: Not Applicable.			
STATE SPECIFIC:				
Massachusetts Right to Know Components	ents : No components are subject to the Massachusetts Right to Know Act.			
Pennsylvania Right to Know Components	nts : No components are subject to the Pennsylvania Right to Know Act.			
New Jersey Right to Know Components	 s : No components are subject to the New Jersey Right to Know Act. : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. 			
California Prop. 65 Components				

15.2 Chemical Safety Assessment

No Data Available.

Section 16 - Additional Information		
16.1 Hazard Ratings		
	NFPA Rating	
Health Hazard	0	
Fire Hazard	0	
Reactivity Hazard	0	

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