

# **Urea 6M Solution**

Safety Data Sheet According to Regulation (EC) 1272/2008 Issue Date: 10/15/21 Revision date: 10/15/24

<b>SECTION 1 - Chemical Product and C</b>	Company Identification			
1.1 Product Identifiers				
Product Name CAS # EC# RTECS#	<ul> <li>Urea 6M Solution</li> <li>57-13-6</li> <li>200-315-5</li> <li>YR6250000</li> </ul>			
1.2 Recommended Use of the Chemical a	and Restrictions of Use			
Chemical manufacturing				
<b>1.3 Supplier Details</b>				
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		
<b>SECTION 2 – Hazard Identification</b>				
2.1 Classification of the Substance or Mi	xture			
	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	<ul> <li>Carbamide Solution, Carbonyl Diamide Solution</li> <li>NH<sub>2</sub>CONH<sub>2</sub></li> <li>60.06 g/mol.</li> </ul>			
Component	Classification	Concentration		
Urea	Not Classified as a Hazardous Substance	25-35%		
Water	Not Classified as a Hazardous Substance	65-75%		

SECTION 4 - First Aid Measures	
4.1 Description of Necessary First Aid Measu	ires
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 Depativity	
SECTION 10 - Stability and Reactivity	
10.1 Chemical Stability	
Stable under normal conditions of use and stora	ge.
<b>10.2 Conditions to Avoid</b>	
Excess heat, incompatibles.	
<b>10.3 Incompatibilities with Other Materials</b>	
Strong oxidizers, strong bases.	
<b>10.4 Hazardous Decomposition Products: Oc</b>	curs Under Fire Conditions
No Data Available	
<b>SECTION 11 - Toxicological Information</b>	
11.1 Toxicological Effects	
LD50/LC50 Carcinogenicity Epidemiology Teratogenicity Reproductive Effects Neurotoxicity Mutagenicity Specific target organ toxicity -single exposure Other Studies	<ul> <li>LD50: Oral - rat -&gt;2.000 mg/kg (solid).</li> <li>Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.</li> <li>No Data Available.</li> </ul>
11.2 Additional Information	
RTECS	: YR6250000
To the best of our knowledge the associated phy	visical, chemical and toxicological properties of this chemical have not undergone

To the best of our knowledge the associated physical, chemical and toxicological properties of this chemical have not undergone thorough investigation, all known information is contained in this SDS.

# **SECTION 12 - Ecological Information**

#### **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.

SECTION 14 - Transport Informatio	)n			
Regulations	US DOT	ΙΑΤΑ	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 Informatio	n	•		
15.1 Safety, Health and Environmental	l Regulations/Legi	slation Specific for the	Substance or Mixture	
ГSCA	: CAS# 1132-61-2 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 Component	ents : No components are subject to the Massachusetts Right to Know Act.			
Pennsylvania Right to Know Components	ts : No components are subject to the Pennsylvania Right to Know Act.			
New Jersey Right to Know Components	: No components are subject to the New Jersey Right to Know Act.			
California Prop. 65 Components	: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.			
15.2 Chemical Safety Assessment				

No Data Available.

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

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