

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 |
| • | |
| 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 | |

The information conveyed in this Safety Data Sheet is only a representation of what BioSpectra has found to be accurate based on the current information that is available in regards to this compound. BioSpectra makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will BioSpectra assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if BioSpectra has been advised of the possibility of such damages.