CAROLINA LIQUID CHEMISTRIES® CORP.

Safety Data Sheet

Section 1: Identification

1.1. **Product Identifiers**
Product Name: BUN
Item Number: BL252. ST252, AU-252, CC252, DT252

1.2. **Relevant Identified uses of the substance or mixture and uses advised against**
Identified uses: This reagent is intended for in vitro quantitative determinations automated clinical chemistry analyzers. See product literature for details.

1.3 **Details of the supplier of the safety data sheet**

Carolina Liquid Chemistries, Corp.
510 West Central Avenue, Suite C
Brea, California, 92821, U.S.A.
877-722-8910

1.3. **Emergency Telephone Number**
Emergency Phone #: **Chemtrec (800) 424-9300**

Section 2: Hazard(s) Identification

2.1. **GHS classification of the substance/mixture and any national or regional information**.
2.1.1. **Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**
2.1.1.1. Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

2.2. **GHS label elements, including precautionary statements. (Hazard symbols may be provided as a graphical reproduction of the symbols in black and white or the name of the symbol, e.g., flame, skull and crossbones.)**
2.2.1. According to US-OSHA and UN GHS

2.3. **Other hazards which do not result in classification (e.g., dust explosion hazard) or are not covered by the GHS.**
2.3.1. Non Applicable

Section 3: Composition/Information on Ingredients

3.1. **Mixture**
3.1.1. The chemical identity and concentration or concentration ranges of all ingredients which are hazardous within the meaning of the GHS and are present above their cutoff levels.
3.1.1.1. Not Applicable

NOTE: For information on ingredients, the competent authority rules for CBI take priority over the rules for product identification.

Section 4: First-Aid Measures

4.1. **Description of necessary measures:** No special measures required.

4.2. **Subdivided according to the different routes of exposure, i.e.:**
4.2.1. **Inhalation:** Supply fresh air; if breathing is difficult seek medical attention immediately..
4.2.2. **Skin Contact:** Wash with soap and copious amounts of water for at least 15 minutes. Remove soiled clothing. If pain or irritation occurs, seek medical attention immediately.
4.2.3. **Eye Contact:** Flush eyes with copious amounts of water for at least 15 minutes. If pain or irritation occurs, seek medical attention immediately.
4.2.4. **Ingestion:** Flush out mouth with copious amounts of water for at least 15 minutes if ingested. . If pain or irritation occurs, seek medical attention immediately.

4.3. **Indication of immediate medical attention and special treatment needed, if necessary.**
4.3.1. None Specific

Section 5: Fire-Fighting Measures

5.1. **Suitable extinguishing media.**
5.1.1. Regular foam, carbon dioxide, dry chemicals.
5.2. **Unsutable extinguishing method:**
5.2.1. Avoid the use of streaming water, as this may spread the flames
5.3. **Specific hazards arising from the mixture:**
5.3.1. Carbon Oxides
5.4. **Special protective equipment and precautions for firefighters**:
5.4.1. Wear self contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

6.1. **Personal Precautions:**
6.1.1. Ensure adequate ventilation**.** Use personal protective equipment. This product contains a material of biological origin. Avoid contact with skin, eyes, and clothing. Use universal precautions during clean up procedures.
6.2. **Environmental Precautions:** Contain spill to prevent mitigation.
6.3. **Methods and materials for containment and cleaning up:**
6.3.1. As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

Section 7: Handling and Storage

7.1. **Precautions for Safe Handling:** Normal precautions for handling chemicals must be observed.
7.1.1. Observe general safety regulations when handling chemicals.
7.1.2. Avoid contact with the eyes, mucous membranes, and skin.
7.2. **Conditions for Safe Storage:** Store in original containers per instruction.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. **Control parameters, e.g., occupational exposure limit values or biological limit values.**
8.1.1. National occupational exposure limits
United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Ethylene Glycol - CAS#: 107-21-1	None	None	100 mg/m	None

8.2. **Appropriate engineering controls.**
8.2.1. **Local Exhaust:** Not Required
8.3. **Protection of Body:** Lab Coat
8.4. **Protection of Eyes:** Safety Glasses / Goggles
8.5. **Protection of Feet:** Not Required
8.6. **Protective of Hands:** Latex / Natural Rubber (N/R)
8.7. **Respiratory Protection:** Not Established
8.8. **General Protection and Hygienic Measures:**
8.8.1. Wash hands before breaks and at the end of work.
8.8.2. Adhere to Good Laboratory Practices (GLP).

Section 9: Physical and Chemical Properties

9.1. **Physical State:** Liquid
9.2. **Color.:** Clear and colorless to slight yellow to green tint
9.3. **Odor:** Not Established
9.4. **Odor Threshold:** Not Available
9.5. **pH:** 7.7 to 7.9 @ 25 ºC
9.6. **Melting Point:** Not Available
9.7. **Freezing point:** Not Available
9.8. **Initial Boiling Point:** Not Available
9.9. **Boiling Range:** Not Available
9.10. **Flash Point:** Not Available

9.11. **Evaporation Rate:** Not Available
9.12. **Flammability (solid, gas):** Not Available
9.13. **Upper Flammability:** Not Available
9.14. **Lower Flammability:** Not Available
9.15. **Explosive limits:** Not Available
9.16. **Vapor Pressure:** Not Available
9.17. **Vapor Density:** Not Available
9.18. **Specific Gravity:** ≈ 1.02 g/cm³
9.19. **Solubility (ies):** Fully miscible
9.20. **Partition Coefficient: n-octanol/water:** Not Available
9.21. **Autoignition Temperature:** Not Available
9.22. **Decomposition Temperature:** Not Available

Section 10: Stability and Reactivity

10.1. **Chemical Stability:** Stable under recommended storage conditions
10.2. **Possibility of hazardous reactions:** No data available
10.3. **Conditions to avoid:** No data available
10.4. **Incompatible materials:** Strong Acids, Strong Bases, Strong oxidizing materials
10.5. **Hazardous Decomposition Products:** In the event of fire, refer to Section 5

Section 11: Toxicological Information

11.1. **Effects of Acute Exposure:** Toxicological data for this product is not available.
11.2. **Effects of Chronic Exposure:** Not Available
11.3. **Irritancy of Product:** Not Available
11.4. **Skin Sensitization:** Not Available
11.5. **Respiratory Sensitization:** Not Available
11.6. **Carcinogenicity -IARC**: Not Available
11.7. **Carcinogenicity – ACGIH:** Not Available
11.8. **Reproductive Toxicity:** Not Available
11.9. **Teratogenicity:** Not Available
11.10 . **Embrotoxicity:** Not Available
11.11. **Mutagenicity:** Not Available
11.12. **Name of Synergistic Products / Effects:** Not Available
11.13. **Additional Toxicological Information:** Hydrolysis of 2-Chloro-4-Nitrophenyl maltorioside produces the end – product 2-Chloro-4-Nitrophenl which may be absorbed through the skin.

Section 12: Ecological Information

12.1. **Ecotoxicity (aquatic and terrestrial, where available):** Material data lacking
12.2. **Persistence and degradability:** Material data lacking
12.3. **Bioaccumulative potential:** Material data lacking
12.4. **Mobility in soil:** Material data lacking
12.5. **Other adverse effects** No studies have been found

Section 13: Disposal Considerations

13.1. **Waste Disposal:** To ensure compliance we recommend that you contact the relevant federal, state and local authorities and / or an approved waste- disposal company for information.

Section 14: Transport Information

Transportation of this product is not regulated according to the definition of hazardous in 49 CFR (USDOT).

Section 15: Regulatory Information

The state of California Safe Drinking Water and Toxic Enforcement Act of 1986 (commonly known as Proposition 65) requires the following warning: This product contains a chemical known to the State of California to cause cancer.

Section 16: Other Information

The information published in this Safety Data Sheet has been compiled from experience and data presented in various technical publications. This information should be used as a guide together with other information gathered by the user in the overall evaluation of suitability for use.

**Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15(29 CFR 1910.1200(g)(2)).*