



Safety Data Sheet

Section 1: Identification

1.1. Product Identifiers

Product Name: CALCIUM REAGENT
Item Number: BL251, AU251, ST251, CC251, DT251, 88815

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 on 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. 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. This product is not classified as hazardous

2.2. Label element, including precautionary statements.

2.2.1. Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

2.2.1.1. This product is not classified as hazardous

2.3. Other hazards which do not result in classification or are not covered by the GHS

2.3.1. Not 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. Most important symptoms/effects, acute and delayed:

4.4. Indication of immediate medical attention and special treatment needed, if necessary.

Section 5: Fire-Fighting Measures

- 5.1. **Suitable (and unsuitable) extinguishing media.**
 - 5.1.1. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
 - 5.1.2. Do not use a solid stream of water as it may scatter and spread fire.
- 5.2. **Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).**
 - 5.2.1. Carbon Oxides
- 5.3. **Special protective equipment and precautions for firefighters.**
 - 5.3.1. Wear self contained breathing apparatus for fire fighting if deemed necessary.

Section 6: Accidental Release Measures

- 6.1. **Personal precautions, protective equipment and emergency procedures.**
 - 6.1.1. Avoid breathing vapors, mist or gas. For personal protection see section 8.
- 6.2. **Environmental precautions.**
 - 6.2.1. Do not allow product to enter drains
- 6.3. **Methods and materials for containment and cleaning up.**
 - 6.3.1. Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
- 6.4. **Reference to other sections.**
 - 6.4.1. Refer to sections 8, 13 and 15

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:**
 - 7.2.1. Keep away from incompatible materials (Refer to Section 10)
 - 7.2.2. To maintain effectiveness, store according to product label instructions

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

- 8.1. **Appropriate engineering controls.**
 - 8.1.1. Use in a well ventilated area with local exhaust
- 8.2. **Individual protection measures, such as personal protective equipment.**
 - 8.2.1. **Protection of Body:**
 - 8.2.1.1. Wear appropriate lab coat or other protective garments. Remove any possible contaminated clothing promptly.
 - 8.2.2. **Protection of Eyes:**
 - 8.2.2.1. Appropriate eye protection should be worn such as safety glasses with side shields or chemical goggles to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133
 - 8.2.3. **Protective of Hands:**
 - 8.2.3.1. Impervious gloves, such as Latex, Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.
 - 8.2.4. **Respiratory Protection:**
 - 8.2.4.1. Under normal conditions, the use of this product should not require respiratory protection.
 - 8.2.4.2. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated.
 - 8.2.4.3. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) respirator cartridges as a backup to engineering controls.
 - 8.2.4.4. If the respirator is the sole means of protection, use a full-face supplied air respirator.
 - 8.2.4.5. Use respirators and components tested and approved under (NIOSH) standards.
 - 8.2.5. **General Protection and Hygienic Measures:**
 - 8.2.5.1. Wash hands before breaks and at the end of work.
 - 8.2.5.2. Adhere to Good Laboratory Practices (GLP).
 - 8.2.6. **Respiratory Protection:** Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under (NIOSH) standards.
 - 8.2.7. **General Protection and Hygienic Measures:**
 - 8.2.7.1. Wash hands before breaks and at the end of work.

Section 9: Physical and Chemical Properties

- 9.1. **Physical State:** Liquid
- 9.2. **Color:** Dark purple to maroon
- 9.3. **Odor:** Not Available
- 9.4. **Odor Threshold:** Not Available
- 9.5. **pH @ 25 °C:** 5.2 to 5.5
- 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 @ 20 °C:** ≈ 1.02 g/mL
- 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:**
 - 10.1.1. Stable when store under package labeling conditions
- 10.2. **Possibility of hazardous reactions:**
 - 10.2.1. Hazardous polymerization does not occur.
- 10.3. **Conditions to avoid:**
 - 10.3.1. Avoid contact with incompatible materials
 - 10.3.2. Avoid exposure to heat and direct sunlight
- 10.4. **Incompatible materials:**
 - 10.4.1. Strong Acids
 - 10.4.2. Strong Bases
 - 10.4.3. Strong Oxidizers
 - 10.4.4. Metals and metallic substances
- 10.5. **Hazardous decomposition products.**
 - 10.5.1. When stored as labeled, no known hazardous decomposition products are known to be formed during the shelf-life of this product.

Section 11: Toxicological Information

- 11.1. **Chemical stability:**
 - 11.1.1. Stable when store under package labeling conditions
- 11.2. **Possibility of hazardous reactions:**
 - 11.2.1. Hazardous polymerization does not occur.
- 11.3. **Conditions to avoid:**
 - 11.3.1. Avoid contact with incompatible materials
 - 11.3.2. Avoid exposure to heat and direct sunlight
- 11.4. **Incompatible materials:**
 - 11.4.1. Strong Acids
 - 11.4.2. Strong Bases
 - 11.4.3. Strong Oxidizers
 - 11.4.4. Metals and metallic substances
- 11.5. **Hazardous decomposition products.**
 - 11.5.1. When stored as labeled, no known hazardous decomposition products are known to be formed during the shelf-life of this product.

Section 12: Ecological Information

12.1. Ecotoxicity (aquatic and terrestrial, where available).

12.1.1. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and degradability.

12.2.1. No data is available on the degradability of this product.

12.3. Bioaccumulative potential.

12.3.1. No data is available on the bioaccumulative properties of this product

12.4. Mobility in soil.

12.4.1. No data is available on the mobility properties of this product

12.5. Other adverse effects.

Section 13: Disposal Considerations

13.1. Waste Disposal:

13.1.1. This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

13.1.2. To ensure compliance we recommend that you contact the relevant (local) authorities and / or an approved waste- disposal company for information.

Section 14: Transport Information

14.1. UN Number:

14.1.1. Current Not Available

14.2. UN Proper shipping name:

14.2.1. Current Not Available

14.3. Transport Hazard class(es) :

14.3.1. Current Not Available

14.4. Packing group, if applicable:

14.4.1. Current Not Available

14.5. Marine pollutant (Yes/No) :

14.5.1. Current Not Available

14.6. Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises:

14.6.1. Current Not Available

Section 15: Regulatory Information

15.1. Regulatory Information:

15.1.1. This product is not hazardous according to OSHA 29CFR 1910.1200.

15.1.2. This mixture is a component of an in vitro diagnostic device regulated by the U.S. Food and Drug Administration.

Section 16: Other Information

The information published in this Material 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)).*