CAROLINA LIQUID CHEMISTRIES® CORP.

Safety Data Sheet

Section 1: Identification

1.1. **Product Name:** Amylase Reagent (AMY)
1.2. **Part Number: BL227, ST227, AU-227, CC227**
1.3. **Application of the substance:** In Vitro Diagnostic Reagent. See product literature for details.
1.4. **Manufacturer / Supplier**

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

1.5. **Emergency Number**
Chemtrec (800) 424-9300

Section 2: Hazard(s) Identification

2.1. GHS classification of substance or mixture

2.1.1. Mixture Physical State: Liquid, Appearance: Clear Odor: Mild
2.1.2. Sodium Thiocynate and ProClin 300 are considered Toxic by the 2012 OSHA Hazardous Communication Standard (299CFR 1910.1200).

2.2 GHS label elements

2.2.1 Pictogram

2.2.2 Signal Word: Warning
2.2.3 Hazard statement(s)
2.2.3.1 H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled
2.2.3.2 H319 Causes serious eye irritation.
2.2.3.3 H412 Harmful to aquatic life with long lasting effects.
2.2.4 Precautionary statement(s):
2.2.4.1 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
2.2.4.2 P264 Wash skin thoroughly after handling.
2.2.4.3 P270 Do not eat, drink or smoke when using this product.
2.2.4.4 P271 Use only outdoors or in a well-ventilated area.
2.2.4.5 P273 Avoid release to the environment.
2.2.4.6 P280 Wear eye protection/ face protection.
2.2.4.7 P280 Wear protective gloves/ protective clothing.
2.2.4.8 P301 + P312 + P330 IF SWALLOWED.
2.2.4.9 P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water.
2.2.4.10 P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
2.2.4.11 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
2.2.4.12 P337 + P313 If eye irritation persists: Get medical advice/ attention.
2.2.4.13 P363 Wash contaminated clothing before reuse.
2.2.4.14 P501 Dispose of contents/ container to an approved waste disposal plant.
2.2.4.15 Call an emergency call center, physician, or doctor if you continuing to feel unwell.

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

2.3.1 Contact with acids liberates very toxic gas (Sodium Thiocynate).

Section 3: Composition/Information on Ingredients

3. Section: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Description: *Aqueous mixture of chemicals for in vitro diagnostic reagent use.*

3.2 Mixture

3.2.1 The chemical identity and concentration or concentration ranges of all ingredients hazardous materials within the meaning of the GHS.

HAZARDOUS COMPONENTS

Chemical Name	CAS NUMBER EC NUMBER	CLASSIFICATION	By Volume
Sodium Thiocynate	CAS: 540-72-7 EC: 208-754-4	Acute Toxic. 4; Eye Irritation 2A; Aquatic Acute 3; Aquatic Chronic 3; H302, H312, H332, H319, H412	< 6%
ProClin 300	CAS: 55965-84-9 EC: 613-167-00-3	Acute toxicity, Oral (Category 4), H302 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Respiratory sensitisation (Category 1), H334 Skin sensitisation (Category 1), H317 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410	< 1%

For the full text of the H-Statements mentioned in this Section, see Section 16.

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. **Flammable:** No

5.2. **Means of Extinction:** Non Applicable

5.3. **Flashpoint (ºC) and Method:** Non Applicable

5.4. **Upper Flammable Limit (% by volume):** Non Applicable

5.5. **Lower Flammable Limit (% by volume):** Non Applicable

5.6. **Auto ignition Temperature (ºC):** Non Applicable

5.7. **Explosion Data – Sensitivity to Impact:** Non Applicable

5.8. **Explosion Data – Sensitivity to Discharge:** Non Applicable

5.9. **Hazardous Combustion Products:** Non Applicable

5.10. **[NFPA]**

Section 6: Accidental Release Measures

6.1. **Personal precautions, protective equipment and emergency procedures**
- 6.1.1. Wear respiratory protection.
- 6.1.2. Avoid dust formation.
- 6.1.3. Avoid breathing vapours, mist or gas.
- 6.1.4. Ensure adequate ventilation.
- 6.1.5. Avoid breathing dust.
- 6.1.6. For personal protection see section 8.

6.2. **Environmental precautions**
- 6.2.1. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. **Methods and materials for containment and cleaning up**
- 6.3.1. Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

6.4. **Reference to other sections**
- 6.4.1. For disposal refer to section 13.

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 container per instruction.

Section 8: Exposure Controls/Personal Protection

8.1. **Control parameters, e.g., occupational exposure limit values or biological limit values.**

8.2. **Appropriate engineering controls.**
- 8.2.1. **Local Exhaust:** Not Required

8.3. **Individual protection measures, such as personal protective equipment.**
- 8.3.1. **Protection of Body:** Lab Coat
- 8.3.2. **Protection of Eyes:** Safety Glasses / Goggles
- 8.3.3. **Protection of Feet:** Not Established
- 8.3.4. **Protective of Hands:** Latex / Natural Rubber (N/R)
- 8.3.5. **Respiratory Protection:** Not Established
- 8.3.6. **General Protection and Hygienic Measures:**
  - 8.3.6.1. Wash hands before breaks and at the end of work.
  - 8.3.6.2. Adhere to Good Laboratory Practices (GLP).

Section 9: Physical and Chemical Properties

9.1. **Physical State:** Liquid
9.2. **Appearance:** Clear and colorless to slight yellow to green tint
9.3. **Odor:** Odorless
9.4. **Odor Threshold (ppm):** Not Available
9.5. **Specific Gravity @ 20 °C:** 1.05 g/mL
9.6. **Vapor Density (air = 1):** Not Available
9.7. **Vapor Pressure (mmHg):** Not Available
9.8. **Evaporation Rate:** Not Available
9.9. **Boiling Point:** Not Available
9.10. **Freezing Point (ºC):** Not Available
9.11. **pH @ 25 ºC :** 5.8 to 6.0
9.12. **Coefficient of Water / Oil Distribution:** Not Available
9.13. **Solubility in Water:** Fully miscible

Section 10: Stability and Reactivity

10.1. **Chemical Stability:** Stable under recommended storage conditions.
10.2. **Incompatibility with Other Substances:** Not Available
10.3. **Reactivity under what conditions:** Not Available
10.4. **Hazardous Decomposition Products:** Not Available

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:**
12.1.1. Sodium Thiocynate
12.1.1.1. Toxicity to fish — LC50 - Oncorhynchus mykiss (rainbow trout) - 233 mg/l - 96 h
12.1.1.2. Toxicity to daphnia and other aquatic invertebrates — EC50 - Daphnia magna (Water flea) - 11 mg/
12.2. Bioaccumulative potential
12.2.1. No data available
12.3. Mobility in Soil
12.3.1. No data available
12.4. **Results of PBT and vPvB assessment**
12.4.1. PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.5. Other adverse effects
12.5.1. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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

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.

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)).*