## 1. Identification

**Production Name**: L-Tyrosine, Disodium, Dihydrate

**Catalog Number**: T015

**Company**: Caisson Laboratories

**Address**: 836 South 100 East, Smithfield UT 84335

**Telephone**: 435.755.7615

**Fax**: 435.755.7617

**Emergency Contact**: CHEMTREC 800.424.9300 (703.527.3887)

**Recommended Use**: For research and laboratory use only.

**Restrictions on Use**: This product is intended for research and laboratory use only. This product is not to be used as human or animal therapeutics, cosmetics, pesticidal products, food additives, or as household chemicals.

## 2. Hazard(s) Identification

**Classification of the Substance or Mixture**

**GHS Classification**:

Not a hazardous substance or mixture.

**GHS Label Elements, Including Precautionary Statements**

**Signal Word**: N/A

**Hazard Statements**:

Not a hazardous substance or mixture.

**Precautionary Statements**:

Not a hazardous substance or mixture.

**Pictograms**: N/A

## 3. Composition/Information on Ingredients

**Synonyms**: L-Tyrosine, Disodium Salt; Disodium L-Tyrosinate

**Formula**: C9H9NO3Na2•2H2O

**Molecular Weight**: 261.19

**CAS-No**: 122666-87-9

**EC-No**: N/A

## 4. First-Aid Measures

**General Advice**: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Route of Exposure**

**If Swallowed**: Never give anything by mouth to an unconscious person. Rinse mouth with water.

**In Case of Skin Contact**: Take off immediately all contaminated clothing. Rinse skin with water.

**In Case of Eye Contact**: Rinse out with plenty of water.

**If Inhaled**: Drink water; consult doctor if feeling unwell. Never give anything by mouth to an unconscious person.

**Most Important Symptoms and Effects, Both Acute and Delated**: The most important known symptoms and effects are described in the labelling (see section 2 – Hazards Identification) and/or in section 11 – Toxicological Information.

**Recommendation for Immediate Medical Care and Special Treatment Needed**: No Data Available

## *5. Fire-Fighting Measures*

**Suitable Extinguishing Media**: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Protective Equipment and Precautions for Fire-Fighters**: Wear self-contained breathing apparatus for firefighting if necessary.

**Special Hazards Arising from the Substance or Mixture**: Combustible. Development of hazardous combustion gases or vapors possible in the event of fire.

Fire may cause evolution of: nitrogen oxides

**Additional Information**: No Data Available

## *6. Accidental Release Measures*

**Personal Precautions, Protective Equipment and Emergency Procedures**: Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

**Environmental Precautions**: Do not let product enter drains.

**Methods and Material for Containment and Cleanup**: Cover drains. Take up dry. Collect spills. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## *7. Handling and Storage*

**Precautions for Safe Handling**: See section 2.

**Conditions for Safe Storage**: Tightly closed. Dry.

**Recommended Storage Temperature**: 2 to 8 °C

**Incompatibilities**: No Data Available

## *8. Exposure controls / Personal Protection*

**OSHA Permissible Exposure Limits (PELs)**: Contains no substances with occupational exposure limit values.

**ACGIH Threshold Limit Values (TLVs)**: Contains no substances with occupational exposure limit values.

**Engineering controls**: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

**Personal Protective Equipment (PPE)**:

> **Eye/face protection**: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards.
>
> **Skin Protection**: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
>
> **Respiratory protection**: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
>
> **Body protection**: Protective work clothing.

## *9. Physical and Chemical Properties*

**Appearance**: Off-White to Tan Powder

**pH**: 10.5 – 11.5 (1%, $H_2O$)

**Solubility**: Soluble in Water

**Specific Gravity**: No Data Available

**Melting Range**: No Data Available

**Odor**: No Data Available

**Odor Threshold**: No Data Available

**Viscosity**: No Data Available

**Relative Density**: No Data Available

**Evaporation Rate**: No Data Available

**Initial Boiling Point and Boiling Range**: No Data Available

**Flash Point**: No Data Available

**Flammability (Solid, gas)**: No Data Available

**Flammability Upper/Lower Limits**: No Data Available

**Partition Coefficient**: No Data Available

**Vapor Density**: No Data Available

**Vapor Pressure**: No Data Available

**Auto-ignition Temperature**: No Data Available

**Decomposition Temperature**: No Data Available

## *10. Stability and Reactivity*

**Reactivity**: No Data Available

**Chemical Stability**: Stable under recommended storage conditions.

**Possibilities of Hazardous Reactions**: No Data Available

**Conditions to Avoid**: No Data Available

**Incompatible Materials**: No Data Available

**Hazardous Decomposition Productions**:

In the event of fire: see section 5

## *11. Toxicological Information:*

**Toxicity**: No Data Available

**Carcinogenicity**:

**NTP**: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC**: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity**: No Data Available

**Symptoms Associated with Overexposure**: No Data Available

**Specific Target Organ Toxicity – Single Exposure**: No Data Available

**Specific Target Organ Toxicity – Repeated Exposure**: No Data Available

**Target Organs**: No Data Available

**Medical Conditions Aggravated by Exposure**: No Data Available

**Routes of Entry**: No Data Available

**NIOSH/RTECS**: Not Available

## *12. Ecological Information*

**Toxicity**: No Data Available

**Persistence and Degradability**: No Data Available

**Bioaccumulative Potential**: No Data Available

**Mobility in Soil**: No Data Available

**Results of PBT and vPvB**: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other Adverse Effects**: No Data Available

## *13. Disposal Considerations*

**Disposal of Product**: Offer surplus and non-recyclable solutions to a licensed disposal company.

**Disposal of Packaging**: Dispose of as unused product.

## *14. Transport Information*

**DOT (US)**: Not a Dangerous Good

**IMDG**: Not a Dangerous Good

**IATA**: Not a Dangerous Good

## *15. Regulatory Information*

**TSCA**: Not Listed

**SARA Title lll**:

**Section 302 (EHS) Ingredients**: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section 313 Ingredients**: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Section 304 (EHS/CERCLA) Ingredients**: No Data Available

**Section 311/312 Hazard**: No SARA Hazards

## *16. Other Information*

**HMIS Rating**

**Health Hazard**: 1

**Chronic Health Hazard**:

**Flammability**: 1

**Physical Hazard**: 1

**NFPA Rating**

**Health Hazard**:

**Fire Hazard**:

**Reactivity**:

**Special Hazard**:

**Further Information**: All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

***SP-CN-T015*** Revision Change Summary:

| Rev. | Date | CR# | Approved | Change description |
|---|---|---|---|---|
| 00 | 02-Dec-19 | | E. Welker | New Document |