SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name :
L-TYROSINE, DISODIUM SALT
Product Number : RES3156T-A7
Brand :
CAS-No. : 122666-87-9

1.2 Relevant identified uses of the substan ce or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Emergency:+86-23-62922305
Fax:+86-23-62459727
Tel:+86-23-62922305
Address:11F, #20 building, #18 Fuquan Road, Jiangbei District, CHONGQING 400020, P.R China
Company:Conier Chem & Pharma Limited

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 2), H401
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, incl uding precautionary statements

Pictogram





Signal word Danger
Hazard statement(s)
H318 Causes serious eye damage.
H401 Toxic to aquatic life.
Precautionary statement(s)
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : C9H9NO3Na2*2H2O
Molecular weight : 261.19 g/mol
CAS-No. : 122666-87-9

Hazardous components

Component	Classification	Concentration
L-Tyrosine disodium salt dihydrate		
	Eye Dam. 1; Aquatic Acute 2; H318, H401	90 - 100 %

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3 Indication of any immediate medical attention and special treatment needed
No data available
5. FIREFIGHTING MEASURES
5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
No data available
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
No data available
6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.
6.2 Environmental precautions
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
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4 Reference to other sections
For disposal see section 13.
7. HANDLING AND STORAGE
7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.
7.2 Conditions for safe stora ge, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 13: Non Combustible Solids
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters
8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) 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.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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 appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties
a) Appearance Form: solid
b) Odour No data available
c) Odour Threshold No data available
d) pH 12.7 at > 727 g/l at 20 °C (68 °F) - hydrates
e) Melting point/freezing point 334.7 °C (634.5 °F) at 1,014.25 hPa (760.75 mmHg) - OECD Test Guideline 102 - hydrates
f) Initial boiling point and boiling range - OECD Test Guideline 103Decomposes below the boiling point., hydrates
g) Flash point No data available
h) Evaporation rate No data available
i) Flammability (solid, gas) The product is not flammable. - Test N.1: Test method for readily combustible solids
j) Upper/lower flammability or explosive limits No data available
k) Vapour pressure No data available
l) Vapour density No data available
m) Relative density 1.4028 g/cm3 at 20 °C (68 °F) - hydrates
n) Water solubility 727 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - hydrates
o) Partition coefficient: n-octanol/water log Pow: < 0.3 at 20 °C (68 °F) - Bioaccumulation is not expected., hydrates
p) Auto-ignition temperature does not ignite, hydrates
q) Decomposition temperature No data available
r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available
9.2 Other safety information
No data available
10. STABILITY AND REACTIVITY
10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5
11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - female - > 2,000 mg/kg
(OECD Test Guideline 423)
Remarks: (in analogy to similar products)

Skin corrosion/irritation
Skin - reconstructed human epidermis (RhE)
Result: non-corrosive
(OECD Test Guideline 431)
Remarks: (in analogy to similar products)
Skin - reconstructed human epidermis (RhE)
Result: negative
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
(OECD Test Guideline 439)
Remarks: (in analogy to similar products)
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Serious eye damage/eye irritation
Eyes - Bovine cornea
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's
Result: Causes serious eye damage. - 4 h
list of regulated carcinogens.
Reproductive toxicity
Specific target organ toxicity - single exposure
Specific target organ toxicity - repeated exposure
Aspiration hazard
No data available
Additional Information
(OECD Test Guideline 437)
RTECS: Not available
Remarks: (in analogy to similar products)
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Respiratory or skin sensitisation
Germ cell mutagenicity
12. ECOLOGICAL INFORMATION
Ames test
Escherichia coli/Salmonella typhimurium
12.1 Toxicity
Result: negative
No data available
(in analogy to similar products)
Toxicity to daphnia and static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h
Carcinogenicity
other aquatic (OECD Test Guideline 202)
invertebrates Remarks: (in analogy to similar products)
Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 8.02 mg/l -
72 h
(OECD Test Guideline 201)
Remarks: (in analogy to similar products)
static test EC10 - Pseudokirchneriella subcapitata (green algae) - 2.22 mg/l -
72 h
(OECD Test Guideline 201)
Remarks: (in analogy to similar products)
12.2 Persistence and degradability
Biodegradability aerobic - Exposure time 28 d
Result : 76.1 % - Readily biodegradable.
(OECD Test Guideline 301D)
Remarks: (in analogy to similar products)
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.
No data available

13. DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.
14. TRANSPORT INFORMATION
DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
15. REGULATORY INFORMATION
SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.
SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De
IATA
Minimis) reporting levels established by SARA Title III, Section 313.
Not dangerous goods
SARA 311/312 Hazards
No SARA Hazards
Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components
CAS-No. Revision Date
L-Tyrosine disodium salt dihydrate 122666-87-9
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.
16. OTHER INFORMATION
Full text of H-Statements referred to under sections 2 and 3.
Aquatic Acute Acute aquatic toxicity
Eye Dam. Serious eye damage
H318 Causes serious eye damage.
H401 Toxic to aquatic life.
Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. CONIER Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.conier.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.
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