1. **Identification of the substance/mixture and of the company/undertaking**

1.1 **Product identifier**

- **Product name**: D-Tyrosine
- **Product code**: GM2446
- **CAS number**: 556-02-5
- **EINECS**: 209-112-6

1.2 **Relevant identified uses of the substance or mixture and uses advised against**

PC21: Laboratory chemicals.

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

- **Company name**: Glentham Life Sciences Ltd
- **Telephone**: +44 (0) 1225 667 798
- **Fax**: +44 (0) 2033 978 909
- **Edinburgh Way**: Corsham, Wiltshire, SN13 9XN
- **Email**: info@glentham.com
- **Website**: www.glentham.com

1.4 **Emergency telephone number**

Emergency telephone number: +44 (0) 1225 667 798 (09.00 - 17.00 GMT)

1.5 **REACH**

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

2. **Hazards identification**

2.1 **Classification of the substance or mixture**

Classification under CLP

- **Skin Irrit. 2**
- **Eye Irrit. 2**
- **STOT SE 3**

2.2 **Label elements**

Label elements under CLP

- **Pictograms**

- **Signal words**: Warning

- **Hazard statements**
  - H315: Causes skin irritation.
  - H319: Causes serious eye irritation.
  - H335: May cause respiratory irritation.

- **Precautionary statements**
  - P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P280: Wear protective gloves/protective clothing/eye protection/face protection.
  - P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
  - P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 **Other hazards**

- **PBT**: This substance is not identified as a PBT substance.

3.0 **Composition/information on ingredients**

3.1 **Substances**

- **Product name**: D-Tyrosine
- **CAS number**: 556-02-5
- **EINECS**: 209-112-6

- **MW**: 181.19
- **MF**: C9H11NO3

4.0 **First aid measures**

4.1 **Description of first aid measures**

**Skin contact**

Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

**Eye contact**

Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion
Wash out mouth with water. Consult a doctor.

Inhalation
Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.

4.2 Most important symptoms and effects, both acute and delayed
Skin contact
There may be irritation and redness at the site of contact.
Eye contact
There may be irritation and redness. The eyes may water profusely.

Ingestion
There may be soreness and redness of the mouth and throat.

Inhalation
There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects
Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed
Immediate / special treatment
Eye bathing equipment should be available on the premises.

5.0 Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media for the surrounding fire should be used.

5.2 Special hazards arising from the substance or mixture
Exposure hazards
In combustion emits toxic fumes.

5.3 Advice for fire-fighters
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6.0 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions
Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust.

6.2 Environmental precautions
Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up
Clean-up procedures
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.3 Reference to other sections
Refer to section 8 of SDS.

7.0 Handling and storage

7.1 Precautions for safe handling
Handling requirements
Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Avoid direct contact with the substance.

7.2 Conditions for safe storage, including any incompatibilities
Storage conditions
Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.

7.3 Specific end use(s)
No data available.

8.0 Exposure controls/personal protection
8.1 Control parameters
Workplace exposure limits
Not applicable.

8.2 Exposure controls
Engineering measures
Ensure there is sufficient ventilation of the area.
Respiratory protection
Respiratory protective device with particle filter. Self-contained breathing apparatus must be available in case of emergency.
Hand protection
Protective gloves.
Eye protection
Safety glasses. Ensure eye bath is to hand.
Skin protection
Protective clothing.

9.0 Physical and chemical properties

9.1 Information on basic physical and chemical properties
Physical Form: Powder
Colour: White

9.2 Other information
Not applicable.

10.0 Stability and reactivity

10.1 Reactivity
Stable under recommended transport or storage conditions.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions
Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid
Heat.

10.5 Incompatible materials
Materials to avoid
Strong acids. Strong oxidising agents.

11.0 Toxicological information

11.1 Information on toxicological effects
Toxicity values
Not applicable.

11.2 Information on toxicological effects
Skin contact
There may be irritation and redness at the site of contact.
Eye contact
There may be irritation and redness. The eyes may water profusely.
Ingestion
There may be soreness and redness of the mouth and throat.
Inhalation
There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
Delayed / immediate effects
Immediate effects can be expected after short-term exposure.
Other information
12.0 Ecological information

12.1 Toxicity
Not applicable.

12.2 Persistence and degradability
Biodegradable.

12.3 Bioaccumulative potential
No bioaccumulation potential.

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment
This substance is not identified as a PBT substance.

12.6 Other adverse effects
Negligible ecotoxicity.

13.0 Disposal considerations

13.1 Waste treatment methods
Disposal operations
Transfer to a suitable container and arrange for collection by specialised disposal company.

NB
The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14.0 Transport information

This product does not require a classification for transport.

15.0 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Not applicable.

Chemical Safety Assessment
A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16.0 Other information

Other information
This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Legal disclaimer
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.