

Printing date 28.02.2011 Version number 1 Revision: 28.02.2011

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

· Product identifier

· Trade name: L-ALANINE ≥ 99%, for biochemistry

· Article number: 3076

· CAS Number:

56-41-7

· EINECS Number:

200-273-8

· Relevant identified uses of the substance or mixture and uses advised against

· Application of the substance / the preparation Laboratory chemical

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149 E-Mail: info@carlroth.de

· Further information obtainable from: Department Health, Safety and Environment

• Emergency telephone number: Poison Centre Munich Telefon +49/(0)89 19240

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulation.

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void
- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description

56-41-7 L-alanine

- · Identification number(s)
- · EC Number: 200-273-8

4 First aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air.
- · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for 10 minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing:

Rinse out mouth and drink a glass of water. Do not induce vomiting.

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If symptoms persist consult doctor.

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5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, powder, foam or water spray.
- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Do not breathe dust.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Prevent formation of dust.

Handling corresponding to laboratory safety guidelines.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Respiratory protection: Particle filter required when dusts are generated.
- · Protection of hands:



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· Material of gloves

Nitrile, thickness: >0.1 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material Value for the permeation: Level ≥ 6

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid Whitish
Colour: Whitish
Characteristic

• pH-value (100 g/l) at 20°C: 5.5 - 6.5

Change in condition

Melting point/Melting range: 295-297°C (dec.)
Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

• Flammability (solid, gaseous): Product is not flammable.

• **Danger of explosion:** Product does not present an explosion hazard.

• Density at 20° C: 1.4 g/cm³

· Solubility in / Miscibility with

water at 25°C: 166.5 g/l

· Segregation coefficient (n-octanol/water): -2.85 log POW

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: Thermal decomposition: 297 °C
- · Possibility of hazardous reactions No information available.
- · Incompatible materials: Strong oxidizing agents.
- · Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification: Quantitative data on the toxicity of this product are not available.
- · Primary irritant effect:
- · on the skin: No information available.

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- · on the eye: No information available.
- · after inhalation: No information available.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

• Further information: The product should be handled with the care usual when dealing with chemicals.

12 Ecological information

- · Toxicity
- · Acquatic toxicity: Quantitative data on the ecological effect of this product are not available.
- · Additional ecological information:
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

- · Uncleaned packaging:
- · Recommendation: Disposal according to official regulations.

14 Transport information

- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- **Remarks:** Not subject to transport regulations.
- · Maritime transport IMDG:
- · IMDG Class:
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -
- · UN "Model Regulation": -
- · Special precautions for user Not applicable.

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · National regulations:
- · Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing MSDS: Department: Health, Safety and Environment
- · Contact: Frau Dr. Rupp
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

* Data compared to the previous version altered.

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