

Safety Data Sheet

#42575978 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
L-(+)-Isoleucinol	24629-25-2	C ₂ H ₅ CH(CH ₃)CH(NH ₂)CH ₂ OH	10	23 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name L-(+)-Isoleucinol**CAS number** 24629-25-2**EC / EINECS number** 246-371-4**Chemical formula** C₂H₅CH(CH₃)CH(NH₂)CH₂OH**Molecular weight** 117.19**SMILES** CCC(C)C(CO)N

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

For research and development. Laboratory chemicals. Manufacture of substances.
Not suitable for human or veterinary purposes

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2

Specific target organ toxicity - (single exposure) Category 3

2.2 Label elements



WARNING

CODE	HAZARD STATEMENT
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H315	Causes skin irritation
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H319	Causes serious eye irritation
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H335	May cause respiratory irritation
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CODE	PRECAUTIONARY STATEMENT
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P261	Avoid breathing dust/fume/gas/mist/vapours/spray
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P280	Wear protective gloves/protective clothing/eye protection/face protection
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P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
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2.3 Other hazards

This product does not contain any known or suspected Endocrine disruptors.

Does not contain components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	L-(+)-Isoleucinol
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CAS number	24629-25-2
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EC number	246-371-4
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Concentration / purity	~100.0%
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Classification according to Regulation (EC) No 1272/2008	Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific target organ toxicity - (single exposure) Category 3
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Hazard statements	H315, H319, H335
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Acute toxicity estimate (ATE)	None reported
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Impurities / stabilising additives	Not applicable
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SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Move to fresh air; seek medical attention if symptoms persist.
Skin contact	Wash with plenty of water; seek medical attention if irritation occurs.
Eye contact	Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention.
Ingestion	Rinse mouth; seek medical attention if feeling unwell.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

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

Treat symptomatically.

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, carbon dioxide, dry powder or water fog

Unsuitable extinguishing media No limitation of extinguishing media given.

5.2 Special hazards arising from the substance or mixture

Carbon monoxides (CO)

Carbon dioxides (CO₂)

Nitrogen oxides (NO_x)

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Absorb spillage with a suitable absorbent material. Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Wear appropriate personal protective equipment (gloves, safety goggles); avoid inhalation of dust or vapors.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient
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Conditions for safe storage (incompatibilities)	Store in a cool, dry place, often under inert gas (such as nitrogen or argon).
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7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL)	None reported
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DNEC/PNEC data	None reported
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8.2 Exposure controls

Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
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Skin / hand protection	Protective gloves (Natural rubber, Nitrile rubber, Neoprene, PVC); impervious clothing, chemical resistant apron, boots.
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Respiratory protection	Dust mask (FFP2/FFP3) Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.
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Other protection	Not applicable
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Environmental exposure controls	Do no let product enter drains
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SECTION 9

Physical & chemical properties**9.1 Information on basic physical and chemical properties**

Appearance / physical state	Solid DERIVED FROM: LITERATURE
Colour	Off-white DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	36 - 39 °C DERIVED FROM: LITERATURE
Boiling point	97 °C DERIVED FROM: LITERATURE
Flammability	<i>Not applicable</i>
Lower and upper explosion limit	<i>No data available</i>
Flash point	100 °C DERIVED FROM: LITERATURE
Auto-ignition temperature	<i>No data available</i>
Decomposition temperature	<i>No data available</i>
pH	<i>No data available</i>
Acidity	Neutral DERIVED FROM: LITERATURE
Kinematic viscosity	<i>No data available</i>
Solubility	<i>No data available</i>
Partition coefficient n-octanol/water (log value)	<i>No data available</i>
Vapour pressure	<i>No data available</i>
Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Relative vapour density	<i>No data available</i>
Particle characteristics	<i>No data available</i>

9.2 Other information*No data available*

SECTION 10

Stability & reactivity**10.1 Reactivity**

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

Stable under the prescribed storage conditions

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur; none under normal processing.

10.4 Conditions to avoid

Incompatible products, excess heat, avoid dust formation.

10.5 Incompatible materials

Acids, strong oxidizing agents.

10.6 Hazardous decomposition products

See section 5

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50) *No data available*

Skin corrosion / irritation Causes skin irritation

Eye corrosion / irritation Causes serious eye irritation

Respiratory / skin sensitisation *No data available*

Carcinogenicity There are no known carcinogenic chemicals in this product.

Mutagenicity There are no known mutagenic chemicals in this product.

Reproductive toxicity *No data available*

STOT (single / repeated exposure) Category 3 - May cause respiratory irritation.

Aspiration hazard Not applicable (solid)

11.2 Information on other hazards

This product does not contain any known or suspected endocrine disruptors.

SECTION 12

Ecological information

12.1 Toxicity

Contains no substances known to be hazardous to the environment.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local/national regulations

SECTION 14

Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

No hazards identified

14.6 Special precautions for user

Special precautions for user No special precautions required.

Transport category Not applicable

Tunnel code Not applicable

Packing instruction (ADR) Not applicable

Packing instruction (IMDG) Not applicable

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Substance-specific regulations (e.g. licences)

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

REACH code

Y113

ECHA notification

Not applicable

15.2 Chemical safety assessment

No

SECTION 16

Other information

Revision notes / other information

This (v10) is the first version of this MSDS and was created on 23.09.2026

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.