

Reviewed on 01/30/2017

## **1** Identification

- · Product identifier
- · Trade name: <u>L-Pipecolic Acid</u>
- Article number: 151898
- · CAS Number:
- 3105-95-1
- · EC number:
- 221-462-1
- · Molecular Formula C6 H11 N O2
- Molecular Weight 129.2
- · Application of the substance / the mixture For Research Use Only

# Details of the supplier of the safety data sheet Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

• Information department: Quality Control Department • Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture

GHS07

Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H335May cause respiratory irritation.

· Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



Signal word Warning
Hazard statements

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).

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IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
IF ON SKIN: Wash with plenty of water.	
Take off contaminated clothing and wash it before reuse.	
Store locked up.	
Store in a well-ventilated place. Keep container tightly closed.	
Dispose of contents/container in accordance with local/regional/national/international regulations	1.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 0	
$\frac{2}{10} Reactivity = 0$	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 0 $Fire = 0$	
$\frac{1}{\text{REACTIVITY}[0]} Reactivity = 0$	
· Other hazards	
• Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable. • <b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Substances	
· CAS No. Description	
3105-95-1 L-Pipecolic Acid	
· Identification number(s)	
• EC number: 221-462-1	
4 First-aid measures	
Description of first aid measures	
· General information:	
Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area.	ult a Doctor
• After inhalation: If breathed in, supply fresh air. If not breathing, give artificial respiration. Const	ui a Docior.

- After skin contact: Wash off with soap and plenty of water. Consult a Doctor.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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## **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

## **6** Accidental release measures

- 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.
   Environmental precautions: Do not allow to enter sewers/surface or ground water.
- *Methods and material for containment and cleaning up:* Pick up mechanically, dispose contaminated material as waste according to Section 13. Ensure adequate ventilation.
- 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.
- · Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes.
- Information about protection against explosions and fires: No special requirements.
- · Conditions for safe storage, including any incompatibilities
- Storage: 15 30 °C
- Requirements to be met by storerooms and receptacles: No special requirements.
- Further information about storage conditions: Keep container tightly sealed.
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see Section 7.

· Control parameters

- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

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Wash hands before breaks and at th	(Contd. of page 3
Wash hands before breaks and at the Avoid contact with the eyes and skir	
Breathing equipment:	ι.
	llution use respiratory filter device. In case of intensive or longer exposure us independent of circulating air.
Protective gloves	
	neable and resistant to the product/ the substance/ the preparation. lation to the glove material can be given for the product/ the preparation/ th
	onsideration of the penetration times, rates of diffusion and the degradation
The selection of the suitable gloves varies from manufacturer to manufacture	
Penetration time of glove material	
The exact break through time has observed.	to be found out by the manufacturer of the protective gloves and has to b
<i>Eye protection:</i>	
Lyc protection.	
Tightly sealed goggles	
Physical and chemical prope	rties
Information on basic physical and	
Information on basic physical and General Information	
Information on basic physical and General Information Appearance:	chemical properties
Information on basic physical and General Information Appearance: Form:	chemical properties Powder
Information on basic physical and General Information Appearance: Form: Color:	<b>chemical properties</b> Powder White
Information on basic physical and General Information Appearance: Form: Color: Odor:	chemical properties Powder
Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold:	<b>chemical properties</b> Powder White Indeterminate
Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value:	<b>chemical properties</b> Powder White Indeterminate Not determined.
Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value:	<b>chemical properties</b> Powder White Indeterminate Not determined.
Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value: Change in condition Boiling point/Boiling range:	chemical properties Powder White Indeterminate Not determined. Not applicable.
Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: pH-value: Change in condition Boiling point/Boiling range: Flash point:	chemical properties Powder White Indeterminate Not determined. Not applicable. Undetermined.
Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: pH-value: Change in condition Boiling point/Boiling range: Flash point: Flammability (solid, gaseous):	chemical properties Powder White Indeterminate Not determined. Not applicable. Undetermined. Not applicable.
Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: pH-value: Change in condition Boiling point/Boiling range: Flash point: Flammability (solid, gaseous):	chemical properties Powder White Indeterminate Not determined. Not applicable. Undetermined. Not applicable.
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Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: pH-value: Change in condition Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature:	chemical properties Powder White Indeterminate Not determined. Not applicable. Undetermined. Not applicable. Product is not flammable. Not determined.
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Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: pH-value: Change in condition Boiling point/Boiling range: Flash point: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Auto igniting: Danger of explosion: Explosion limits:	chemical properties Powder White Indeterminate Not determined. Not applicable. Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. See section 10
Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: pH-value: Change in condition Boiling point/Boiling range: Flash point: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Auto igniting: Danger of explosion:	chemical properties Powder White Indeterminate Not determined. Not applicable. Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined.

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Upper:	Not Applicable	
· Vapor pressure:	Not applicable.	
· Density:	Not Applicable	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with	Not Determined	
· Water:	Soluble.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
• Other information	No further relevant information available.	

## **10 Stability and reactivity**

- *Reactivity* No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## **11** Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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· Additional ecological information:

- · General notes:
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. • Results of PBT and vPvB assessment

· **PBT:** Not applicable.

- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

- *Recommendation:* Can not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- Recommendation: Discard must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleaning agents.

UN-Number	Not regulated
DOT, ADR, ADN, IMDG, IATA	Not regulated
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not regulated
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Not regulated
Packing group	
DOT, ADR, ÎMDG, IATA	Not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II o	f
MARPOL73/78 and the IBC Code	Not applicable.

## **15 Regulatory information**

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

- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.

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Chemicals known to cause developmental toxicity: Substance is not listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency) Substance is not listed.	
TLV (Threshold Limit Value established by ACGIH) Substance is not listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not li.	sted.
GHS label elements The substance is classified and labeled according to the Globally H	armonized System (GHS
Hazard pictograms	
$\wedge$	
GHS07	
Signal word Warning	
Hazard statements	
Causes skin irritation.	
Causes serious eye irritation.	
May cause respiratory irritation.	
Precautionary statements	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wear protective gloves / eye protection / face protection.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, i	if present and easy to d
Continue rinsing.	J F The second
Specific treatment (see on this label).	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Call a POISON CENTER/doctor if you feel unwell.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
IF ON SKIN: Wash with plenty of water.	
Take off contaminated clothing and wash it before reuse.	
Store locked up.	
Store in a well-ventilated place. Keep container tightly closed.	
Dispose of contents/container in accordance with local/regional/national/international r	egulations.
<b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.	~

## **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 SDS: Quality Control Dept.
- · Date of preparation / last revision 01/30/2017 / -

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)

 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3