Sigma-Aldrich

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# SAFETY DATA SHEET

Version 6.7 Revision Date 10/07/2021 Print Date 04/29/2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## **1.1 Product identifiers**

Product name:L-PhenylalanineProduct Number:P2126Brand:Sigma-AldrichCAS-No.:63-91-2

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

Identified uses : Laboratory chemicals, Synthesis of substances

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

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone Fax	-	+1 314 771-5765 +1 800 325-5052

## **1.4 Emergency telephone**

- -

Emergency Phone #

: 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

- **2.2** GHS Label elements, including precautionary statements
  - Not a hazardous substance or mixture.
- 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS none

# **SECTION 3: Composition/information on ingredients**

3.1	Substances Synonyms	:	(S)-2-Amino-3-phenylpropionic acid	
Sigma	Formula Molecular weight a-Aldrich - P2126	-	XXXXXX 165.19 g/mol	Page 1 of 9



CAS-No.	: 63-91-2	
EC-No.	: 200-568-3	1

No components need to be disclosed according to the applicable regulations.

## **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

## In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

- **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

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

**Unsuitable extinguishing media** For this substance/mixture no limitations of extinguishing agents are given.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

**5.3** Advice for firefighters In the event of fire, wear self-contained breathing apparatus.

## 5.4 Further information

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

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## **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- **6.4 Reference to other sections** For disposal see section 13.

## **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

**Storage conditions** Tightly closed. Dry.

Storage class Storage class (TRGS 510): 11: Combustible Solids

**7.3 Specific end use(s)** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Ingredients with workplace control parameters** Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

## Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

#### Personal protective equipment

## Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

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Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

## **Respiratory protection**

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

#### **Control of environmental exposure**

Do not let product enter drains.

# SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Color: white
b)	Odor	weak
c)	Odor Threshold	No data available
d)	pН	5.0 - 7 at 16.5 g/l at 25 °C (77 °F)
e)	Melting point/freezing point	Melting point/range: 270 - 275 °C (518 - 527 °F) - dec.
f)	Initial boiling point and boiling range	295 °C 563 °F
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	5.71
m)	Density	1.34 g/cm3 at 20 °C (68 °F) - OECD Test Guideline 109

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	Relative density	1,343 at 20 °C (68 °F) - OECD Test Guideline 109
n)	Water solubility	27.05 g/l at 25 °C (77 °F) - completely soluble25.02 g/l at 20 °C (68 °F) - completely soluble
o)	Partition coefficient: n-octanol/water	log Pow: -1.52 at 20 °C (68 °F) - Bioaccumulation is not expected.
p)	Autoignition temperature	does not ignite
q)	Decomposition temperature	above melting point
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none
Other safety information		
	Relative vapor density	5.71

# SECTION 10: Stability and reactivity

#### **10.1 Reactivity**

9.2

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

## 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

**10.3 Possibility of hazardous reactions** Violent reactions possible with: Strong oxidizing agents

#### **10.4** Conditions to avoid

no information available

- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

# SECTION 11: Toxicological information

## **11.1 Information on toxicological effects**

### Acute toxicity

LD50 Oral - Rat - male and female - 16,000 mg/kg Remarks: (ECHA) Inhalation: No data available Dermal: No data available No data available

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#### Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE) Result: No skin irritation (OECD Test Guideline 439)

## Serious eye damage/eye irritation

Eyes - In vitro study Result: No eye irritation (Hen's egg-membrane test for irritation (HET-CAM))

# Respiratory or skin sensitization

No data available

## Germ cell mutagenicity

Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

## Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### **Reproductive toxicity**

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

#### **11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Essential amino acid.

Handle in accordance with good industrial hygiene and safety practice.

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# **SECTION 12: Ecological information**

## 12.1 Toxicity

12.2

Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)		
Toxicity to algae	Growth inhibition ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)		
Persistence and degradability			
Biodegradability	aerobic - Exposure time 24 h		
	Result: 16 % - Readily biodegradable.		

**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

Remarks: (ECHA)

12.6 Endocrine disrupting properties No data available

# 12.7 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

## Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

## **SECTION 14:** Transport information

#### **DOT (US)** Not dangerous goods

IMDG

Not dangerous goods

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#### IATA Not dangerous goods

## **Further information**

Not classified as dangerous in the meaning of transport regulations.

## **SECTION 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 Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

No SARA Hazards

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components 3-phenyl-L-alanine	CAS-No. 63-91-2	Revision Date
New Jersey Right To Know Components 3-phenyl-L-alanine	CAS-No. 63-91-2	Revision Date

## **SECTION 16: Other information**

#### **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. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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