

SAFETY DATA SHEET

Create Date: 2020-11-10

SECTION 1: COMPANY AND PRODUCT INFORMATION

1.1 Product identifiers

Product name : Bestatin
Cat. Number : ZXB-02-101
CAS number : 58970-76-6
Synonyms : ([2S,3R]-3-Amino-2-hydroxy-4-phenylbutanoyl)-L-leucine

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

Identified uses : Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Address : Hinter den Gärten 56
89173 Lonsee
Deutschland

Email : info@zellx.de
Phone : +49(0)731 55211521
Fax : +49(0)731 55211719

1.4 Emergency telephone number

Emergency phone : +49(0)731 55211521

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Not a hazardous substance or mixture

2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not a dangerous substance or mixture according to GHS

2.3 Label elements and precautionary statements

Pictogram :
Signal word : Not classified
Hazard statement(s) : Not classified
Precautionary statement(s) : Wash hands thoroughly after handling. IF exposed or concerned: Get medical advice/attention

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

Not available

2.5 NFPA Rating

Health hazard : 0
Fire hazard : 1
Reactivity hazard : 0

2.6 HMIS Rating

Health hazard : 0
Chronic health hazard : 0
Reactivity hazard : -
Flammability : 1
Physical hazard : -

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance	CAS#	EC#	Concentration
[2S,3R]-3-Amino-2-hydroxy-4-phenylbutanoyl)-L-leucine M.F: C ₁₆ H ₂₄ N ₂ O ₄ M.W: 308.4	58970-76-6	261-529-2	-

3.2 Hazardous components & classification

No ingredients are hazardous according to OSHA criteria

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

In case of inhalation

Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician

In case of skin contact

Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.

In case of eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. If symptoms persist, call a physician.

In case of ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Not available

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Unsuitable extinguishing media

None

5.3 Special hazards arising from the substance

Carbon oxides, nitrogen oxides (NOx)

5.4 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

For personal protection see section 8

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

For proper disposal see section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

Incompatible materials : None known based on information supplied.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Engineering controls

General industrial hygiene practice

8.3 Personal protective equipment

Eye/face protection : Tight sealing safety goggles. Face protection shield.

Skin protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	: Do not let product enter drains.
General hygiene considerations	: When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	: crystalline or powder
b)	Physical states	: Solid
c)	Odor	: Not available
d)	Odor threshold	: Not available
e)	Melting point	: 245°C (473 °F)
f)	Boiling point range	: 604.66 °C
g)	pH	: Not available
h)	Density	: 1.20 g/cm ³
i)	Flash point	: 319.49 °C
j)	Evaporation rate	: Not available
k)	Flammability	: Not available
l)	Upper/lower flammability or explosive limits:	: Not available
m)	Vapor pressure	: Not available
n)	Vapor density	: Not available
o)	Relative density	: Not available
p)	Water solubility	: Not available
q)	Partition coefficient:n-octanol/water	: 0.18
r)	Autoignition temperature	: Not available
s)	Decomposition temperature	: 245 °C (473 °F)
t)	Kinematic viscosity	: Not available
u)	Explosive properties	: Not available
v)	Oxidizing properties	: Not available
w)	Solubility in other solvents	: Not available

x) Surface tension : Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Stability note(s)

Not available

10.4 Polymerization

Not available

10.5 Possibility of hazardous reactions

None under normal processing.

10.6 Incompatible materials

Strong oxidizing agents

10.7 Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50 Oral : Not available

LD50 Dermal : Not available

LC50 Inhalation : Not available

11.2 Skin corrosion/irritation

Not available

11.3 Serious eye damage/eye irritation

Not available

11.4 Respiratory or skin sensitization

Not available

11.5 Germ cell mutagenicity

Not available

11.6 Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP : No component 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 identified as a carcinogen or potential carcinogen by OSHA.

11.7 Reproductive toxicity

Not available

11.8 Specific target organ toxicity – single exposure

Not available

11.9 Specific target organ toxicity – repeated exposure

Not available

11.10 Aspiration hazard

Not available

11.11 Additional Information

RTECS: OH2915000

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not available

12.2 Aquatic toxicity

Not available

12.3 Persistence and degradability

Not available

12.4 Bioaccumulative potential

Not available

12.5 Mobility in soil

Not available

12.6 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.7 Other adverse effect

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2 Packaging

Dispose of as unused product.

13.3 Recommendation

SECTION 14: TRANSPORTATION INFORMATION

14.1 DOT (US)

Not dangerous goods.

14.2 IMDG

Not dangerous goods.

14.3 IATA

Not dangerous goods.

SECTION 15: REGULATORY INFORMATION

15.1 SARA

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: 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

15.2 Clean water act (CWA)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

15.3 Right to know components

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

Pennsylvania : [S-(R*,S*)]-N-(3-Amino-2-hydroxy-4-phenylbutyroyl)-L-leucine; CAS-No.:58970-76-6

New Jersey : [S-(R*,S*)]-N-(3-Amino-2-hydroxy-4-phenylbutyroyl)-L-leucine; CAS-No.:58970-76-6

California proposition 65 components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

16.1 Disclaimer

This product is offered by zellx-biochem.com for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall zellx-biochem.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if zellx-biochem.com has been advised of the possibility of such damages.

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16.2 Preparation Information

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