



Safety Data Sheet

acc. to OSHA HCS

Printing date 09/14/2016

Version 3

Reviewed on 11/25/2014

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

1.1 Product identifier

Product name : 4-Benzoyl-L-phenylalanine
 Product number : 204322
 CAS-No. : 104504-45-2
 Synonyms: (S)-2-Amino-3-(4-benzoylphenyl)propionic acid, H-Phe(4-Bz)-OH

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

Manufacturer/Supplier: J&K Scientific LLC
 601 Interchange Blvd, Newark, DE 19711
 Telephone/Fax: +1 952 942 3333 / +1 952 942 3322
 E-mail address: jkus@jk-scientific.com
 J&K Scientific Ltd.
 AEF 18/F Bldg-D Majesty Garden 6 Bei-Si-Huan-Zhong Rd. Beijing
 Telephone/Fax: +86 10 8284 8833 / +86 10 8284 9933
 E-mail address: jkinfo@jkchemical.com

Preparation Information: Product safety department

Emergency telephone number: +1 800 424 9300 (for USA & Canada)

2 Hazards identification

2.1 Classification of the substance or mixture

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

The substance is not classified according to the Globally Harmonized System (GHS).

2.2 Label elements

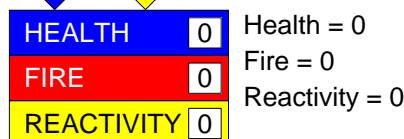
GHS label elements Not regulated
 Hazard pictograms Not regulated
 Signal word Not regulated
 Hazard statements Not regulated
 Precautionary statements Do not get in eyes, on skin, or on clothing.

Classification system

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
 vPvB: Not applicable.

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3 Composition/information on ingredients

Chemical characterization: Substances

MF:	C16H15NO3
MW:	269.30
CAS-No. Description	104504-45-2 4-Benzoyl-L-phenylalanine

4 First-aid measures

4.1 Description of first aid measures

General information:	Consult a physician. Show this safety data sheet to the doctor in attendance.
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Wash off with soap and plenty of water. Consult a physician.
After eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After swallowing:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Information for doctor

Most important symptoms and effects, both acute and delayed	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Indication of any immediate medical attention and special treatment needed	No data available

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Remove persons from danger area.

Environmental precautions: Do not let product enter drains.

6.2 Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.3 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and storage

7.1 Handling

Precautions for safe handling

No special precautions are necessary if used correctly.
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Information about protection against explosions and fires

No special measures required.

7.2 Storage

Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage Class (TRGS510):

LGK 13: Non-combustible solids that cannot be assigned to any of the above storage classes

8 Exposure controls/personal protection

8.1 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.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:



Protective gloves

Material of gloves :

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
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

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

Body protection:

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance

Form: Powder
Color: White

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Odor:	uncharacteristic
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density:	Not determined.
Bulk density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Other information	no data available

10 Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No dangerous reactions known.
10.4 Conditions to avoid	No data available
10.6 Hazardous decomposition products	Carbon oxides, Nitrogen oxides

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Primary irritant effect

on the skin:	No irritant effect.
on the eye:	No irritating effect.
Sensitization:	No sensitizing effects known.

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Product name : 4-Benzoyl-L-phenylalanine

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

12.1 Toxicity

Aquatic toxicity No data available

12.2 Persistence and degradability

No data available

12.3 Behavior in environmental systems

Bioaccumulative potential : No data available

Mobility in soil : No data available

12.4 Additional ecological information

General notes: Not known to be hazardous to water.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects : No data available

13 Disposal considerations

13.1 Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

13.2 Contaminated packaging Dispose of as unused product.

13.3 Recommendation Disposal must be made according to official regulations.

14 Transport information

14.1 UN-Number

DOT, ADR, ADN, IMDG, IATA Not regulated

14.2 UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Not regulated

14.3 Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA
Class Not regulated

14.4 Packing group

DOT, ADR, IMDG, IATA Not regulated

14.5 Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

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UN "Model Regulation":

Not regulated

15 Regulatory information

15.1 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.

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 listed.

GHS label elements Not regulated

Hazard pictograms Not regulated

Signal word Not regulated

Hazard statements Not regulated

Precautionary statements Do not get in eyes, on skin, or on clothing.

15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The above information is believed to be correct but does not represent any guarantee of the properties of the product, Some new information or amendments may be added afterwards. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility. Any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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

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DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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
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