

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.05.2011

Revision: 04.05.2011

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

Product identifier

Trade name

N-Bsmoc-L-phenylalanine

Stock number:

L19741

CAS Number:

197245-19-5

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

Sector of Use

SU24 Scientific research and development

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG
 A Johnson Matthey Company
 Benzstrasse 3
 D-76185 Karlsruhe / Germany
 Tel: +49 (0) 721 84007 280
 Fax: +49 (0) 721 84007 300
 Email: tech@alfa.com
 www.alfa.com

Product safety department.
 Product Safety Department +049 (0) 7275 988687-0 (business hours)
 Carechem 24: +44 (0) 1235 239 670 (Multi-language 24 hour emergency)
 Giftnotruf Universität Mainz / Poison Information Center Mainz
 www.giftinfo.uni-mainz.de Telefon: +49(0)6131/19240

Informing department:

Emergency telephone number:

2 Hazards identification

Classification of the substance or mixture
 Classification according to Regulation (EC)
 No 1272/2008

The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/
 EEC or Directive 1999/45/EC
 Information concerning particular hazards
 for human and environment:

Not applicable

Not applicable

Label elements
 Labelling according to Regulation (EC) No
 1272/2008

Not applicable

Hazard pictograms

Not applicable

Signal word

Not applicable

Hazard statements

Not applicable

Other hazards

Not applicable

Results of PBT and vPvB assessment

Not applicable.

PBT:

Not applicable.

vPvB:

3 Composition/information on ingredients

Chemical characterization: Substances
 (CAS#) Designation:

197245-19-5 N-Bsmoc-L-phenylalanine

4 First aid measures

Description of first aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact

Seek immediate medical advice.
Instantly wash with water and soap and rinse thoroughly.

After eye contact

Seek immediate medical advice.

After swallowing

Rinse opened eye for several minutes under running water. Then consult doctor.

Information for doctor

Seek medical treatment.

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.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents

Special hazards arising from the substance
 or mixture

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Can be released in case of fire:
 Carbon monoxide and carbon dioxide
 Nitrogen oxides (NO_x)
 Sulphur oxides (SO_x)
 Possibly Hydrogen cyanide (HCN)

Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.
 Wear full protective suit.

6 Accidental release measures

Personal precautions, protective equipment
 and emergency procedures

Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation

Environmental precautions:
 Methods and material for containment and
 cleaning up:

Do not allow material to be released to the environment without proper governmental permits.

Reference to other sections

Collect mechanically.

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7 Handling and storage

Handling

Precautions for safe handling

Keep containers tightly sealed.

Information about protection against
 explosions and fires:

Keep ignition sources away - Do not smoke.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and
 containers:

Refrigerate

(Contd. on page 2)
GB

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(Contd. of page 1)

Information about storage in one common storage facility: Protect from heat.
Store away from oxidizing agents.

Further information about storage conditions: Keep container tightly sealed.
Refrigerate

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with critical values that require monitoring at the workplace: Not required.

Additional information: No data

Exposure controls

Personal protective equipment

General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Use breathing protection with high concentrations.
Check protective gloves prior to each use for their proper condition.
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.
Impervious gloves

Breathing equipment: Not determined

Protection of hands: Safety glasses

Material of gloves Protective work clothing.

Penetration time of glove material Not determined

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:**

Form: Crystalline powder

Colour: White

Smell: Cream coloured

Odour threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: 167-169°C

Boiling point/Boiling range: Not determined

Sublimation temperature / start: Not determined

Inflammability (solid, gaseous) Not determined.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Self-inflammability: Not determined.

Danger of explosion: Product is not explosive.

Critical values for explosion:

Lower: Not determined

Upper: Not determined

Steam pressure: Not applicable.

Density Not determined

Relative density Not determined.

Vapour density Not applicable.

Evaporation rate Not applicable.

Segregation coefficient (n-octanol/water): Not determined.

Viscosity:

dynamic: Not applicable.

kinematic: Not applicable.

Other information No further relevant information available.

10 Stability and reactivity**Reactivity****Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions No dangerous reactions known

Incompatible materials: Heat

Oxidizing agents

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

Sulphur oxides (SO_x)

Possibly Hydrogen cyanide (HCN)

Hazardous decomposition products:

11 Toxicological information**Information on toxicological effects****Acute toxicity:****Primary irritant effect:**

on the skin: May cause irritation

on the eye: May cause irritation

Sensitization: No sensitizing effect known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

(Contd. on page 3)

GB

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(Contd. of page 2)

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12 Ecological information

| | |
|--|---|
| Toxicity | No further relevant information available. |
| Aquatic toxicity: | No further relevant information available. |
| Persistence and degradability | |
| Behaviour in environmental systems: | |
| Bioaccumulative potential | No further relevant information available. |
| Mobility in soil | No further relevant information available. |
| Additional ecological information: | |
| General notes: | Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits. |
| 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 | Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal. |
| Uncleaned packagings: | |
| Recommendation: | Disposal must be made according to official regulations. |

14 Transport information

| | |
|--|--|
| Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) | |
| ADR/RID-GGVS/E Class: | None |
| Maritime transport IMDG/GGVSea: | |
| IMDG/GGVSea Class: | None |
| Marine pollutant: | No |
| Air transport ICAO-TI and IATA-DGR: | |
| ICAO/IATA Class: | None |
| Special precautions for user | Not applicable. |
| Transport/Additional information: | Not dangerous according to the above specifications. |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

15 Regulatory information

| | |
|---|---|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| Labelling according to Regulation (EC) No 1272/2008 | Not applicable |
| Hazard pictograms | Not applicable |
| Signal word | Not applicable |
| Hazard statements | Not applicable |
| National regulations | |
| Information about limitation of use: | For use only by technically qualified individuals. |
| Water hazard class: | Water hazard class 1 (Self-assessment): slightly hazardous for water. |
| Chemical safety assessment: | A Chemical Safety Assessment has not been carried out. |

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and 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.

Department issuing data specification sheet: Health, Safety and Environmental Department.

Contact: Zachariah C. Holt
Global EHS Manager

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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)