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

- · Product identifier
- · Trade name: Fmoc-Asn(trt)-OH >99%
- · Article number: 60-1128-25
- · CAS Number:
- 132388-59-1
- · Registration number

A registration number is not available for this substance because the annual tonnage is less than that required for registration or the registration date is envisaged for a later registration deadline.

- \cdot Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the preparation Laboratory chemical
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier of the safe
 Manufacturer/Supplier: Severn Biotech Ltd.
 Unit 2,
 Park Lane,
 Kidderminster,
 Worcestershire.
 DY11 6TJ
 UK
 Tel: 0044 1562 825286
 Fax: 0044 1562 825284
 email: info@severnbiotech.com

• Further information obtainable from: Product safety department.

• Emergency telephone number: Tel: 0044 1562 825286 (not 24 hours)

2 Hazards identification

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

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC
- R53: May cause long-term adverse effects in the aquatic environment.
- Information concerning particular hazards for human and environment: Not applicable.
- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements
- H413 May cause long lasting harmful effects to aquatic life.
- · Precautionary statements
- P273 Avoid release to the environment.
- P391 Collect spillage.
- P401 Store in accordance with local/regional/national/international regulations.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Other hazards
- \cdot Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 132388-59-1 Nα-Fmoc-Nβ-trityl-L-asparagine
- · Identification number(s)

4 First aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Check for and remove any contact lenses.
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Rinse out mouth and then drink plenty of water.

- Do not induce vomiting; call for medical help immediately.
- \cdot Information for doctor: Treat symptomatically and supportively.
- \cdot 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:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid formation of dust.
- Ensure adequate ventilation
- Environmental precautions: Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.
- Methods and material for containment and cleaning up: Pick up mechanically. Send for recovery or disposal in suitable receptacles.
- 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

- · Handling:
- \cdot Precautions for safe handling
- Prevent formation of dust.
- Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions: Store in a bunded area.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- Select PPE appropriate for the operations taking place taking into account the product properties.

· General protective and hygienic measures:

- Do not breath dust
- Avoid close or long term contact with the skin.
- Do not eat, drink, smoke or sniff while working.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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.

- Eye protection: Not required.
- Body protection: Protective work clothing

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t an explosion hazard.
rmation available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- \cdot Possibility of hazardous reactions No dangerous reactions known.
- \cdot Conditions to avoid No further relevant information available.
- \cdot Incompatible materials: Strong acids and oxidising agents
- · Hazardous decomposition products:
- Carbon monoxide and carbon dioxide

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Nitrogen oxides (NOx)

11 Toxicological information

 \cdot Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

Oral LD50 >2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rabbit)

- Primary irritant effect:
- on the skin: No irritant effect.
- \cdot on the eye: No irritating effect.
- \cdot Sensitization: No sensitizing effects known.

12 Ecological information

· Toxicity

· Aquatic toxicity:

EC50 >100 mg/kg (daphnia)

- · Persistence and degradability biodegradable
- · Behaviour in environmental systems:
- · Bioaccumulative potential Product is not expected to bioaccumulate.
- \cdot Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

\cdot Waste treatment methods

· Recommendation

Contact waste processors for recycling information.

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· European waste catalogue

Waste key numbers in accordance with the European Waste catalogue (EWC) are origin-referred defined. Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· ADR, ADN, IMDG, IATA

Void

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· UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex I	I of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

15 Regulatory information

· Chemical safety assessment: 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 MSDS: Product safety department.