

# Safety Data Sheet

Release 2.0  
Revision 03/05/2018  
Date of issue 03/05/2018

## 1 Identification of the substance

### Identification of the substance

Identification of the substance L-Pyroglutamic acid beta-naphthylamide

Additional identification L-Pyrrolidonyl-beta-naphthylamide; L-Pyroglutamic acid 2-naphthylamide; N1-(2-Naphthyl)-L-pyroglutamic acid

Biosynth catalog no. P-8600

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

### Use of the substance/preparation

Identified uses enzyme substrate

Restriction on use not for food or drug use, for laboratory use only

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### Emergency Number

Phone +41 (0)71 858 20 20 office hours

## 2 Hazards identification

### Possible Hazards (Summary)

Ingestion acute toxicity (Category 4)

Potential Environmental Effect  
Hazardous to the aquatic environment, Short term (Category 1)  
Chronic aquatic toxicity (Category 1)

### GHS Labeling

Regulatory List  
EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol  
GHS07 exclamation mark

Pictogram



GHS09 environmental hazards

Pictogram



*Signal Word*

Warning      Warning

*Hazard Statement*

H302      Harmful if swallowed.  
H400      Very toxic to aquatic life.  
H410      Very toxic to aquatic life with long lasting effects.

*Precautionary Statement*

P261      Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273      Avoid release to the environment.  
P280      Wear protective gloves/protective clothing/eye protection/face protection.  
P312      Call a POISON CENTER or doctor/physician if you feel unwell.

*Additional Information*

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

### 3 Composition/information on ingredients

**Substance related information**

*Substance name*      L-Pyroglutamic acid beta-naphthylamide  
*Synonymes*      L-Pyrrolidonyl-beta-naphthylamide; L-Pyroglutamic acid 2-naphthylamide; N1-(2-Naphthyl)-L-pyroglutamic acid  
*Cas No.*      [22155-91-5]  
*Formula*      C<sub>15</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>

### 4 First aid measures

**First Aid: Eye**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

**First Aid: Skin**

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

**First Aid: Ingestion**

Wash out mouth with water provided person is conscious. Call a physician.

**First Aid: Inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

**Hints for Physician: Treatment**

Treat symptomatically.

### 5 Firefighting measures

**Extinguishing Media****Suitable**

foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>), water spray jet

**Unsuitable**

not available

**Hazards During Fire-Fighting**

toxic fumes

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**Protective Equipment for Fire-Fighting**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Fire-Fighting/Further Advice**

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

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**6 Accidental release measures**

**Personal Precautions**

Avoid generation of dust. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

**Environmental Precautions**

Ensure waste is collected and contained.

**Methods for Cleaning or Taking Up**

not available

**Further Accidental Release Measures**

Avoid generation of dust. Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

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**7 Handling and storage**

**Handling**

**Handling advice**

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.

**Storage**

**Storage temperature**

store at 5°C

**Storage condition**

close container well

**Storage Requirements**

Keep away from incompatible substances. Keep container tightly closed when not in use.

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**8 Exposure controles/personal protection**

**Exposure controles**

**Industrial Hygiene**

Mechanical exhaust required. Safety shower and eye shower.

**Personal Protective Equipment**

**Respiratory Protection**

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

**Hand Protection**

Wear compatible chemical-resistant gloves to prevent skin exposure.

**Eye Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

**Body Protection**

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

**Advice on Safe Handling**

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

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## 9 Physical and chemical properties

### Color

white, off-white

### Form

crystalline powder

### Phase Transition Solid/Liquid

192 °C

### Molar Mass

254.29 g/mol

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## 10 Stability and reactivity

### Conditions to Avoid

incompatible materials, moisture

### Substances to Avoid

strong oxidizers

### Decomposition Products

carbon dioxide (CO<sub>2</sub>), carbon monoxide

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## 11 Toxicological information

### Other Relevant Toxicity Information

We are not aware of any toxicology data.

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## 12 Ecological Information

### Additional Ecotoxicological Remarks

#### *Memo*

Very toxic to aquatic life.

### Biodegradation

no data available

### Bioaccumulation

no data available

### Distribution in Environment

no data available

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## 13 Disposal considerations

### Advice on Disposal and Packaging

#### *Advice on Disposal*

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and, Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### *Advice on Packaging*

not available

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## 14 Transport information

#### Road Transport (ADR/GGVs)

|                             |                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------|
| <i>UN No.</i>               | 3077                                                                                        |
| <i>Class(es)</i>            | 9                                                                                           |
| <i>Packaging group</i>      | III                                                                                         |
| <i>Proper Shipping Name</i> | Environmentally hazardous substance, solid, n.o.s. (L-Pyroglutamic acid beta-naphthylamide) |

#### Air Transport (IATA)

|                             |                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------|
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| <i>Class(es)</i>            | 9                                                                                           |
| <i>Packaging group</i>      | III                                                                                         |
| <i>Proper Shipping Name</i> | Environmentally hazardous substance, solid, n.o.s. (L-Pyroglutamic acid beta-naphthylamide) |

## 15 Other regulations

### Other Regulations

*Regulatory List*  
EINECS, TCSI

## 16 Additional information

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