

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

### 1.1 Product identifier

Product name : N-Formyl  $\gamma$ -Carboxyglutamic acid  $\gamma,\gamma$ -di-t-butyl 3-ethyl ester  
Product code : GM1251  
CAS number : 75117-30-5

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

PC21: Laboratory chemicals.

### 1.3 Details of the supplier of the safety data sheet

Company name	: Glentham Life Sciences Ltd	Telephone	: +44 (0) 1225 667 798
	Unit 5 Leafield Way	Fax	: +44 (0) 2033 978 909
	Corsham SN13 9SW	Email	: <a href="mailto:info@glentham.com">info@glentham.com</a>
	United Kingdom	Web	: <a href="http://www.glentham.com">www.glentham.com</a>

### 1.4 Emergency telephone number

Emergency telephone number: +44 (0) 1225 667 798 (09.00 – 17.00 GMT)

### 1.5 REACH

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.

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification under CLP

This product has no classification under CLP.

### 2.2 Label elements

Label elements under CLP

This product has no label elements.

### 2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

## 3.0 Composition/information on ingredients

### 3.1 Substances

Product name	: N-Formyl $\gamma$ -Carboxyglutamic acid	MW: 359.41
	$\gamma,\gamma$ -di-t-butyl 3-ethyl ester	
CAS number	: 75117-30-5	MF :

## 4.0 First aid measures

### 4.1 Description of first aid measures

Skin contact

Wash immediately with plenty of soap and water.

Eye contact

Bathe the eye with running water for 15 minutes.

Ingestion

Wash out mouth with water.

Inhalation

Consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

Skin contact

There may be mild irritation at the site of contact.

Eye contact

There may be irritation and redness.

Ingestion

There may be irritation of the throat.

Inhalation

There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects**

Immediate effects can be expected after short-term exposure.

**4.3 Indication of any immediate medical attention and special treatment needed****Immediate / special treatment**

Not applicable.

**5.0 Fire-fighting measures****5.1 Extinguishing media**

Suitable extinguishing media for the surrounding fire should be used.

**5.2 Special hazards arising from the substance or mixture****Exposure hazards**

In combustion emits toxic fumes.

**5.3 Advice for fire-fighters**

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6.0 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****Personal precautions**

Refer to section 8 of SDS for personal protection details.

**6.2 Environmental precautions**

Do not discharge into drains or rivers.

**6.3 Methods and material for containment and cleaning up****Clean-up procedures**

Wash the spillage site with large amounts of water.

**6.3 Reference to other sections**

Refer to section 8 of SDS.

**7.0 Handling and storage****7.1 Precautions for safe handling****Handling requirements**

Avoid the formation or spread of dust in the air.

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.

**7.3 Specific end use(s)**

No data available.

**8.0 Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Not applicable.

**8.2 Exposure controls****Engineering measures**

Not applicable.

**Respiratory protection**

Respiratory protective device with particle filter.

**Hand protection**

Protective gloves.

**Eye protection**

Safety glasses. Ensure eye bath is to hand.

**Skin protection**

Protective clothing.

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## 9.0 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical Form:

Colour:

### 9.2 Other information

Not applicable.

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## 10.0 Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

#### Hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

#### Materials to avoid

Strong acids. Strong oxidising agents.

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## 11.0 Toxicological information

### 11.1 Information on toxicological effects

#### Toxicity values

Not applicable.

### 11.2 Information on toxicological effects

#### Skin contact

There may be mild irritation at the site of contact.

#### Eye contact

There may be irritation and redness.

#### Ingestion

There may be irritation of the throat.

#### Inhalation

There may be irritation of the throat with a feeling of tightness in the chest.

#### Delayed / immediate effects

Immediate effects can be expected after short-term exposure.

#### Other information

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## 12.0 Ecological information

### 12.1 Toxicity

Not applicable.

### 12.2 Persistence and degradability

Biodegradable.

### 12.3 Bioaccumulative potential

No bioaccumulation potential.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This substance is not identified as a PBT substance.

### 12.6 Endocrine disrupting properties

Negligible ecotoxicity.

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#### 13.0 Disposal considerations

##### 13.1 Waste treatment methods

###### Disposal operations

Transfer to a suitable container and arrange for collection by specialised disposal company.

###### NB

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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#### 14.0 Transport information

This product does not require a classification for transport.

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#### 15.0 Regulatory information

##### Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable.

##### Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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#### 16.0 Other information

##### Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

##### Legal disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.