

According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

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

### 1.1 Product identifier

Product code : GS3303  
 Product name : n-Heptane 99%, GlenDry™, anhydrous  
 CAS number : 142-82-5  
 EINECS : 205-563-8  
 Physical form : liquid, substance  
 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.

### 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 : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

|      |                   |
|------|-------------------|
| H225 | Flam. Liq. 2      |
| H304 | Asp. Tox. 1       |
| H315 | Skin Irr. 2       |
| H335 | STOT SE 3         |
| H336 | STOT SE 3         |
| H400 | Aquatic Acute 1   |
| H410 | Aquatic Chronic 1 |

### 2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

#### Pictograms



#### Signal words

Danger

#### Hazard statements

|      |  |
|------|--|
| H225 | Highly flammable liquid and vapour                   |
| H304 | May be fatal if swallowed and enters airways         |
| H315 | Causes skin irritation                               |
| H335 | May cause respiratory irritation                     |
| H336 | May cause drowsiness or dizziness                    |
| H400 | Very toxic to aquatic life                           |
| H410 | Very toxic to aquatic life with long lasting effects |

#### Precautionary statements

|           |   |
|-----------|---|
| P210      | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. |
| P261      | Avoid breathing dust/fume/gas/mist/vapors/spray.  |
| P273      | Avoid release to the environment.   |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/...                                       |
| P331      | Do NOT induce vomiting.   |

P264 Do not breathe fume.  
P241 Use explosion-proof electrical equipment.

### 2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

## 3.0 Composition/information on ingredients

### 3.1 Substances

| Name                               | Identifier  | %   | Classification   |
|------------------------------------|---|-----|--|
| n-Heptane 99%, GlenDry™, anhydrous | CAS: 142-82-5<br>EC: 205-563-8<br>REACH: Not applicable | 99% | H225, Flam. Liq. 2<br>H304, Asp. Tox. 1<br>H315, Skin Irr. 2<br>H335, STOT SE 3<br>H336, STOT SE 3<br>H400, Aquatic Acute 1<br>H410, Aquatic Chronic 1 |

## 4. First aid measures

### 4.1 Description of first aid measures

|              |  |
|--------------|--|
| Skin contact | Consult a doctor. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove all contaminated clothes and footwear immediately unless stuck to skin. |
| Eye contact  | Consult a doctor. Bathe the eye with running water for 15 minutes.   |
| Ingestion    | Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Wash out mouth with water.  |
| Inhalation   | Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.   |

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

|                             |   |
|-----------------------------|---|
| Skin contact                | There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.  |
| Eye contact                 | The eyes may water profusely. There may be irritation and redness. There may be pain and redness.   |
| Ingestion                   | Nausea and stomach pain may occur. There may be difficulty swallowing. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting. |
| Inhalation                  | Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be vomiting.   |
| Delayed / immediate effects | Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.                                       |

### 4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Water spray.

### 5.2 Special hazards arising from the substance or mixture

Exposure hazards

Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture.

### 5.3 Advice for fire-fighters

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

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Eliminate all sources of ignition. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Notify the police and fire brigade immediately. 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

Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

### 6.4 Reference to other sections

Refer to section 8 of SDS.

## 7. Handling and storage

### 7.1 Precautions for safe handling

#### Handling requirements

Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Do not handle in a confined space. Smoking is forbidden. Use non-sparking tools. Ensure there is sufficient ventilation of the area.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Avoid contact with water or humidity. Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. The floor of the storage room must be impermeable to prevent the escape of liquids. Store in cool, well ventilated area.

### 7.3 Specific end use(s)

No data available.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits

| Substance (CAS)      | Control Parameter                              | Value | Notes | Source           |
|----------------------|--|-------|-------|------------------|
| n-Heptane (142-82-5) | Long-term Exposure Limit (ppm)                 | 500   |       | UK HSE EH40/2005 |
|                      | Long-term Exposure Limit (mg m <sup>-3</sup> ) | 2085  |       |                  |
|                      | Long-term Exposure Limit (ppm)                 | 2085  |       | 2000/39/EC       |
|                      | Long-term Exposure Limit (mg m <sup>-3</sup> ) | 500   |       |                  |

### 8.2 Exposure controls

|                        |  |
|------------------------|--|
| Engineering measures   | Ensure lighting and electrical equipment are not a source of ignition. The floor of the storage room must be impermeable to prevent the escape of liquids. Ensure there is sufficient ventilation of the area. |
| Respiratory protection | Respiratory protective device with particle filter. Self-contained breathing apparatus must be available in case of emergency.   |
| Hand protection        | Protective gloves.   |
| Eye protection         | Ensure eye bath is to hand. Safety glasses.  |

|                 |   |
|-----------------|---|
| Skin protection | Protective clothing.  |
| Environmental   | The floor of the storage room must be impermeable to prevent the escape of liquids. |

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                                    |
|---|------------------------------------|
| Physical state                                    | Liquid                             |
| Colour  | Colourless                         |
| Odour   | No data available.                 |
| Melting point/Freezing point                      | -91 °C                             |
| Boiling point/initial boiling point/boiling range | 98 °C                              |
| Flammability                                      | Highly flammable liquid and vapour |
| Lower/Upper explosion limit                       | No data available.                 |
| Flash Point                                       | No data available.                 |
| Auto-ignition temperature                         | No data available.                 |
| Decomposition temperature                         | No data available.                 |
| pH  | No data available.                 |
| Kinematic viscosity                               | No data available.                 |
| Solubility  | No data available.                 |
| Partition coefficient n-octanol/water             | No data available.                 |
| Vapour pressure                                   | No data available.                 |
| Density/relative density                          | 0.680                              |
| Relative vapour pressure                          | No data available.                 |
| Particle characteristics                          | No data available.                 |

### 9.2 Other information

No data available.

## 10. Stability and reactivity

### 10.1 Reactivity

Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

Stable at room temperature. Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

#### Hazardous reactions

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

### 10.4 Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

### 10.5 Incompatible materials

#### Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### a) Acute toxicity

##### n-Heptane

24 hr LC50 Goldfish (Carassius auratus) (Aquatic): 4 mg/L

4 hr LC50 Rat (Inhalation): 10300 mg/m<sup>3</sup>

4 hr LC50 Rat (Inhalation): 103 mg/m<sup>3</sup>

2 hr LD50 Mouse (Inhalation): 75 g/m<sup>3</sup>

LD50 Mouse (IV): 222 mg/kg

#### b) Skin corrosion/irritation

Skin corrosion/irritation (Category 2)

#### c) Serious eye damage/irritation

No data available.

d) **Respiratory or skin sensitisation**

No data available.

e) **Germ cell mutagenicity**

No data available.

f) **Carcinogenicity**

No data available.

g) **Reproductive toxicity**

No data available.

h) **STOT-single exposure**

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

i) **STOT-repeated exposure**

No data available.

j) **Aspiration hazard**

Aspiration hazard (Category 1)

11.2 **Symptoms / routes of exposure**

|                             |   |
|-----------------------------|---|
| Skin contact                | There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.  |
| Eye contact                 | The eyes may water profusely. There may be irritation and redness. There may be pain and redness.   |
| Ingestion                   | Nausea and stomach pain may occur. There may be difficulty swallowing. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting. |
| Inhalation                  | Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be vomiting.   |
| Delayed / immediate effects | Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.                                       |
| Other information           | No data available.  |

12. **Ecological information**

12.1 **Toxicity**

No data available.

12.2 **Persistence and degradability**

Not biodegradable.

12.3 **Bioaccumulative potential**

Bioaccumulation potential.

12.4 **Mobility in soil**

Readily absorbed into soil.

12.5 **Results of PBT and vPvB assessment**

This substance is not identified as a PBT substance.

12.6 **Endocrine disrupting properties**

This substance is not identified as having endocrine disrupting properties

12.7 **Other adverse effects**

No data available.

13. **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.

## 14. Transport information

| ADR  | IMDG   | IATA   | ADN   | RID  |
|--|--|--|---|--|
| <b>14.1. UN number</b>   |  |  |   |  |
| UN1206   | UN1206   | UN1206   | UN1206  | UN1206   |
| <b>14.2. UN proper shipping name</b>   |  |  |   |  |
| HEPTANES   | HEPTANES   | Heptanes   | HEPTANES  | HEPTANES   |
| <b>Transport document description</b>  |  |  |   |  |
| UN1206 HEPTANES, 3, II   | UN1206 HEPTANES, 3, II   | UN1206 Heptanes, 3, II   | UN1206 HEPTANES, 3, II  | UN1206 HEPTANES, 3, II   |
| <b>14.3. Transport hazard class(es)</b>  |  |  |   |  |
| 3  | 3  | 3  | 3   | 3  |
|  |  |  |  |  |
| <b>14.4. Packing group</b>   |  |  |   |  |
| II   | II   | II   | II  | II   |
| <b>14.5. Environmental hazards</b>   |  |  |   |  |
| No   | No   | No   | No  | No   |

## 15. Regulatory information

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

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

#### Authorisations/Restrictions

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation: No data available.

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances: No data available.

Regulation (EC) 1005/2009 on substances that deplete the ozone layer: No data available.

Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021: No data available.

### 15.2 Chemical safety assessment

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

## 16. Other information

### H-Statement Full Texts

H225 Highly flammable liquid and vapour  
H304 May be fatal if swallowed and enters airways  
H315 Causes skin irritation  
H335 May cause respiratory irritation  
H336 May cause drowsiness or dizziness  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects

### Abbreviations Full Texts

|           |   |
|-----------|---|
| ADN       | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR       | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ALARP     | As low as is reasonably practicable   |
| CAS       | Chemical Abstracts Service  |
| CLP       | Classification, Labelling and Packaging Regulations   |
| COSHH     | Control of Substances Hazardous to Health   |
| EC Number | European Community Number   |
| EC50      | Effective Concentration 50%   |
| EILINCS   | European List of Notified Chemical Substances   |
| EINECS    | European Inventory of Existing Commercial Chemical Substances                                   |
| GHS       | Globally Harmonised System  |
| HSE       | Health & Safety Executive UK  |
| IATA      | International Air Transport Association   |
| IM        | Intramuscular   |
| IMDG      | The International Maritime Dangerous Goods Code   |
| IP        | Intraperitoneal   |
| IV        | Intravascular   |
| LD50      | Lethal Dose 50%   |
| LOEC      | Lowest Observable Effective Concentration   |
| LTEL      | Long Term Exposure Limit  |
| NOEC      | No Observable Effective Concentration   |
| OECD      | Organisation for Economic Cooperations and Development  |
| PBT       | Persistent Bioaccumulative Toxic  |
| PPE       | Personal Protective Equipment   |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals                            |
| RID       | Regulations Concerning the International Carriage of Dangerous Goods by Rail                    |
| SC        | Subcutaneous  |
| SDS       | Safety Data Sheet   |
| STEL      | Short Term Exposure Limit   |
| STOT      | Specific Target Organ Toxicity  |
| VOC       | Volatile Organic Compounds  |
| vPvB      | Very Persistent and Very Bioaccumulative  |
| WEL       | Workplace Exposure Limits   |

**This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.**

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