

### Safety Data Sheet

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### 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 name :<br>CAS number :<br>Physical form :                      | 5   | able for this sub<br>ae annual tonna | bstance as the substance or its uses<br>age does not require a registration or<br>on deadline.                              |
| 1.2 | Relevant identified uses   | s of the substance or mixture and uses advised against                                  |                                      |   |
|     | PC21: Laboratory chem  | icals.  |                                      |   |
| 1.3 | Details of the supplier of the safety data sheet                       |   |                                      |   |
|     | Company name :   | Glentham Life Sciences Ltd<br>Unit 5 Leafield Way<br>Corsham SN13 9SW<br>United Kingdom | Telephone<br>Fax<br>Email<br>Web     | <ul> <li>+44 (0) 1225 667 798</li> <li>+44 (0) 2033 978 909</li> <li>info@glentham.com</li> <li>www.glentham.com</li> </ul> |
| 1.4 | Emergency telephone r  | number  |                                      |   |
|     | Emergency telephone : number   | NHS Direct 111 (UK, 24 hours), 1  | 12 (EU, 24 Hou                       | urs), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)  |

### 2. Hazards identification

### 2.1 Classification of the substance or mixture

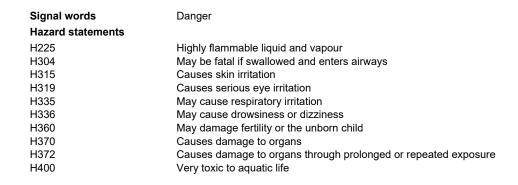
| Classification under CLP according to (EC) 1272/2008 |              |  |  |
|--|--------------|--|--|
| H225   | Flam. Liq. 2 |  |  |
| H304   | Asp. Tox. 1  |  |  |
| H315   | Skin Irr. 2  |  |  |
| H319   | Eye Irr. 2A  |  |  |
| H335   | STOT SE 3    |  |  |
| H336   | STOT SE 3    |  |  |
| H360   | Repr. 1A     |  |  |
| H370   | STOT SE 1    |  |  |
| H372   | STOT RE 1    |  |  |
| H400 Aquatic Acute 1                                 |              |  |  |

### 2.2 Label elements

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

### Pictograms







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### **Precautionary statements**

| P210      | Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking. |
|-----------|--|
| P240      | Ground/bond container and receiving equipment.   |
| P260      | Do not breathe dust/fume/gas/mist/vapors/spray.  |
| P261      | Avoid breathing dust/fume/gas/mist/vapors/spray.   |
| P281      | Use personal protective equipment as required.   |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/                                       |
| P302+P352 | IF ON SKIN: wash with plenty of water.   |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                   |
| 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  |
|---------------------------------------|---|---|---|
| Bis(cyclopentadienyl)dimethyltitanium | CAS: 1271-66-5<br>EC:<br>REACH: Not<br>applicable |   | H225, Flam. Liq. 2<br>H304, Asp. Tox. 1<br>H315, Skin Irr. 2<br>H319, Eye Irr. 2A |
|                                       |   |   | H335, STOT SE 3<br>H336, STOT SE 3<br>H360, Repr. 1A<br>H370, STOT SE 1           |
|                                       |   |   | H372, STOT RE 1<br>H400, Aquatic Acute 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. Transfer to hospital if there are burns or symptoms of poisoning. Wash immediately with plenty of soap and water.   |
|---------------------|--|
| Eye contact         | Consult a doctor. Transfer to hospital for specialist examination. 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. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Wash out mouth with water.   |
| Inhalation          | If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so. |
| lost important symp | otoms and effects, both acute and delayed  |

| Skin contact | Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure. |
|--------------|--|
| Eye contact  | The eyes may water profusely. There may be irritation and redness. There may be severe pain.   |
| Ingestion    | Convulsions may occur. There may be irritation of the throat. There may be loss of consciousness.<br>There may be soreness and redness of the mouth and throat. There may be vomiting.   |

4.2

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### GK0496 v3.0

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| Inhalation        | Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting. |
|-------------------|--|
| <b>BI</b> 1/1 0.4 |  |

Delayed / immediate effects Convulsions may occur. Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.

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

### Immediate / special treatment

Do not induce vomiting. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

### 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. Toxic.

### 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

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Eliminate all sources of ignition. Evacuate the area immediately. 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

Alert the neighbourhood to the presence of fumes or gas. Do not discharge into drains or rivers.

### 6.3 Methods and material for containment and cleaning up

#### Clean-up procedures

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Absorb into dry earth or sand. 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. Ensure there is exhaust ventilation of the area. 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. Store in cool, well ventilated area.

### 7.3 Specific end use(s)

No data available.

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### 8. Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limits

No workplace exposure limit control parameters set

### 8.2 Exposure controls

| Engineering measures                                   | measures Ensure lighting and electrical equipment are not a source of ignition. Ensure there is exhaust ventilation of the area. Ensure there is sufficient ventilation of the area. |  |
|--|--|--|
| Respiratory protection                                 | Particle filter class P1 (EN143). Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.                    |  |
| Hand protection Impermeable gloves. Protective gloves. |  |  |
| Eye protection   | Safety glasses with side-shields. Ensure eye bath is to hand. Safety glasses.  |  |
| Skin protection  | Protective clothing.   |  |

### 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| Liquid             |
|--------------------|
| Colourless         |
| 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.

### <sup>10.3</sup> 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.

### <sup>10.4</sup> Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

### Incompatible materials

### Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

10.5

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| 11.    | Toxicological information  | ation   |  |  |  |
|--------|--|---|--|--|--|
| 11.1   | Information on toxicological effects   |   |  |  |  |
| a)     | Acute toxicity<br>No data available.   |   |  |  |  |
| b)     | Skin corrosion/irritation Skin corrosion/irritation (Category 2)   |   |  |  |  |
| c)     | Serious eye damage/<br>Serious eye damage/   | /irritation<br>/eye irritation (Category 2A)  |  |  |  |
| d)     | <b>Respiratory or skin s</b><br>No data available.   | ensitisation  |  |  |  |
| e)     | <b>Germ cell mutagenic</b><br>No data available.   | ity   |  |  |  |
| f)     | Carcinogenicity  |   |  |  |  |
|        | No data available.   |   |  |  |  |
| g)     | Reproductive toxicity  | y .   |  |  |  |
|        | Reproductive toxicity  |   |  |  |  |
| h)     | STOT-single exposu   | re  |  |  |  |
|        | Specific target organ toxicity, single exposure (Category 1)<br>Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)   |   |  |  |  |
| i)     | STOT-repeated expo   |   |  |  |  |
|        | Specific target organ  | toxicity, repeated exposure (Category 1)  |  |  |  |
| j)     | Aspiration hazard  |   |  |  |  |
|        | Aspiration hazard (Ca  | ategory 1)  |  |  |  |
|        | Symptoms / routes o  | Symptoms / routes of exposure   |  |  |  |
|        | Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure. |   |  |  |  |
|        | Eye contact  | The eyes may water profusely. There may be irritation and redness. There may be severe pain.  |  |  |  |
|        | Ingestion  | Convulsions may occur. There may be irritation of the throat. There may be loss of consciousness.<br>There may be soreness and redness of the mouth and throat. There may be vomiting.  |  |  |  |
|        | Inhalation   | Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions<br>may occur. Exposure may cause coughing or wheezing. There may be irritation of the throat with a<br>feeling of tightness in the chest. There may be loss of consciousness. There may be shortness of<br>breath with a burning sensation in the throat. There may be vomiting. |  |  |  |
|        | Delayed / immediate<br>effects   | Convulsions may occur. Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.   |  |  |  |
|        | Other information No data available.   |   |  |  |  |
| 11.2   | Information on other   | hazards   |  |  |  |
| 11.2.1 | Endocrine disrupting p   | properties  |  |  |  |
|        | This product does no   | t contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.  |  |  |  |
| 11.2.2 | Other information  |   |  |  |  |
|        | No additional informa  | tion  |  |  |  |
| 12.    | Ecological information   | on  |  |  |  |
| 12.1   | Toxicity   |   |  |  |  |
|        | -  |   |  |  |  |

No data available.

### 12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential



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No 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.

<sup>12.6</sup> 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  | ΙΑΤΑ   | ADN   | RID   |
|---|---|--|---|---|
| 14.1. UN number   |   |  |   |   |
| UN1993  | UN1993  | UN1993   | UN1993  | UN1993  |
| 14.2. UN proper shipping nar  | ne  |  |   |   |
| FLAMMABLE<br>LIQUID, N.O.S.   | FLAMMABLE<br>LIQUID, N.O.S.   | Flammable liquid,<br>n.o.s.  | FLAMMABLE<br>LIQUID, N.O.S.   | FLAMMABLE<br>LIQUID, N.O.S.   |
| Transport document descript   | tion  |  |   |   |
| UN1993<br>FLAMMABLE<br>LIQUID, N.O.S. (BIS(<br>CYCLOPENTADIEN<br>YL)DIMETHYLTITAN<br>IUM), 3, III | UN1993<br>FLAMMABLE<br>LIQUID, N.O.S. (BIS(<br>CYCLOPENTADIEN<br>YL)DIMETHYLTITAN<br>IUM), 3, III | UN1993 Flammable<br>liquid, n.o.s. (Bis(cycl<br>opentadienyl)dimethyl<br>titanium), 3, III | UN1993<br>FLAMMABLE<br>LIQUID, N.O.S. (BIS(<br>CYCLOPENTADIEN<br>YL)DIMETHYLTITAN<br>IUM), 3, III | UN1993<br>FLAMMABLE<br>LIQUID, N.O.S. (BIS(<br>CYCLOPENTADIEN<br>YL)DIMETHYLTITAN<br>IUM), 3, III |
| 14.3. Transport hazard class(   | (es)  |  |   |   |
| 3   | 3   | 3  | 3   | 3   |
|   |   |  |   |   |
| 14.4. Packing group   |   |  |   |   |
| III   | III   | III  | III   | III   |
| 14.5. Environmental hazards   |   |  |   |   |
| 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) 2020/878.



Authorisations/Restrictions

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|      | <b>o</b> ( )   | 1907/2006, REACH, Annex XIV list of substances subject to  | No data available.        |
|------|--|--|---------------------------|
|      | authorisation:   |  |                           |
|      | Regulation (EC)  | 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing  | No data available.        |
|      | on the market a  | nd use of certain dangerous substances:  |                           |
|      | Regulation (EC)  | 1005/2009 on substances that deplete the ozone layer:  | No data available.        |
|      | 0 ( )  | 850/2004 on persistent organic pollutants, amended by (EU) No  | No data available.        |
|      | 2019/1021:   |  | No data avallable.        |
|      | 2019/1021.   |  |                           |
| 15.2 | Chemical safety assess   | sment  |                           |
|      | A chemical safety  | assessment has not been carried out for the substance or the mixture by t  | he supplier               |
|      | A chemical salety a  |  |                           |
|      |  |  |                           |
| 16.  | Other information  |  |                           |
|      |  |  |                           |
|      | H-Statement Full T   |  |                           |
|      | H225   | Highly flammable liquid and vapour   |                           |
|      | H304   | May be fatal if swallowed and enters airways   |                           |
|      | H315   | Causes skin irritation   |                           |
|      | H319   | Causes serious eye irritation  |                           |
|      | H335   | May cause respiratory irritation   |                           |
|      | H336   | May cause drowsiness or dizziness  |                           |
|      | H360   | May damage fertility or the unborn child   |                           |
|      | H370   | Causes damage to organs  |                           |
|      | H372   | Causes damage to organs through prolonged or repeated exposure   |                           |
|      | H400   | Very toxic to aquatic life   |                           |
|      | Abbreviations Full   | Texts  |                           |
|      | ADN  |  | Coode by Ipland Waterwaya |
|      | ADR  | European Agreement concerning the International Carriage of Dangerou:<br>European Agreement concerning the International Carriage of Dangerou: |                           |
|      |  |  | s 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<br>HSE   | Globally Harmonised System   |                           |
|      | IATA   | Health & Safety Executive UK   |                           |
|      |  | International Air Transport Association  |                           |
|      | IM Intramuscular   |  |                           |
|      | IMDG The International Maritime Dangerous Goods Code                 |  |                           |
|      | IP Intraperitoneal<br>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   | hy Poil                   |
|      | SC   | Subcutaneous   | oy itali                  |
|      | SDS  | Safety Data Sheet  |                           |
|      | SDS  | Safety Data Sheet<br>Short Term Exposure Limit   |                           |
|      |  | •  |                           |
|      | STOT<br>VOC  | Specific Target Organ Toxicity<br>Volatile Organic Compounds   |                           |
|      |  | 5 I  |                           |
|      | vPvB<br>WEL  | Very Persistent and Very Bioaccumulative<br>Workplace Exposure Limits  |                           |
|      | VVEL   | WURPIAUE EXPOSURE LITTILS  |                           |
|      |  |  |                           |

# This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

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