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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product form : Mixture  
Trade name : Calantha™

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

#### Relevant identified uses

Use of the substance/mixture : Bio-insecticide

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

#### Supplier

GreenLight Biosciences, Inc.  
9 Laboratory Drive  
27709 Durham, NC  
T 1-919-446-1743  
[contact@greenlightbio.com](mailto:contact@greenlightbio.com)

#### Distributor

Greenlight Biosciences España S.L.  
Ctra N-IV km 566  
41720 Los Palacios y Villafranca  
Espana

### 1.4. Emergency telephone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA) CCN 1018598  
Back-up Emergency Number: +1 703-741-5970 (Washington, DC)  
+32 2 808 32 37 (Brussels. French, Flemish, and German)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth. If you feel unwell, seek medical advice. |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.                                                      |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin areas with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.                                                                                          |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                                                                                                                                        |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center or a doctor if you feel unwell.                                                                                                                           |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment.                                                                                                                                                                                                                             |

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

|                                     |                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Not expected to present a significant hazard under anticipated conditions of normal use.             |
| Symptoms/effects after skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use.        |
| Symptoms/effects after eye contact  | : Not expected to present a significant eye contact hazard under anticipated conditions of normal use. |
| Symptoms/effects after ingestion    | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.   |

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

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : Not flammable or combustible unless product dries. Dried material will burn under fire conditions and high concentrations of dried dust in the air may present a dust explosion hazard.
- Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

### 5.3. Advice for firefighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

- General measures : Avoid all personal contact including breathing in the mist, spray, vapours. Do not take actions involving personal risks. Absorb spillage to prevent material damage. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

#### For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area. Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, Remove ignition sources, ventilate area. Prevent other non-emergency personnel from entering the danger area.
- Measures in case of dust release : Where excessive dust may result, use approved respiratory protection equipment.

#### For emergency responders

- Protective equipment : Wear the recommended personal protective equipment. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid negligent or unplanned release to the environment.

**6.3. Methods and material for containment and cleaning up**

|                         |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Contain with non-combustible inert absorbent. Stop leak without risks if possible. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.                                                                                                                                             |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Take up in non-combustible inert absorbent and place into container for disposal. Decontaminate surfaces and equipment with water and detergent. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations. |

**6.4. Reference to other sections**

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

|                                   |                                                                                                                                                                                                                            |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use.                                                                                                                                 |
| Precautions for safe handling     | : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing mist, spray, vapours. Take precautionary measures against static discharge. |
| Hygiene measures                  | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                                                                                                                        |

**7.2. Conditions for safe storage, including any incompatibilities**

|                        |                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures     | : Keep in a cool, well-ventilated place away from heat.                                                                                                                                         |
| Storage conditions     | : Store in a cool, dry and well-ventilated area away from incompatible substances. Keep container closed when not in use. Do not store near food, foodstuffs, drugs, or potable water supplies. |
| Incompatible materials | : Strong acids, strong bases and strong oxidants.                                                                                                                                               |
| Storage temperature    | : 40 – 50 °C / 104 – 122 °F                                                                                                                                                                     |
| Packaging materials    | : Store always product in container of same material as original container.                                                                                                                     |

**7.3. Specific end use(s)**

For use in pesticide formulation.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

No additional information available

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### Personal protection equipment

#### Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

No special eye protection equipment recommended under normal conditions of use. If material is handled such that it could be splashed into eyes, protective eyewear is recommended.

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing. Body protection should be chosen depending on activity and possible exposure

#### Hand protection:

Wear protective gloves

### Respiratory protection

#### Respiratory protection:

No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment. High efficiency particulate air filter (HEPA filter)

### Environmental exposure controls

#### Environmental exposure controls:

Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|                 |                     |
|-----------------|---------------------|
| Physical state  | : Liquid            |
| Colour          | : Light yellow.     |
| Appearance      | : Clear.            |
| Odour           | : None.             |
| Odour threshold | : Not available     |
| Melting point   | : Not applicable    |
| Freezing point  | : Not available     |
| Boiling point   | : ≈ 100 °C / 212 °F |
| Flammability    | : Not flammable     |

# Calantha™

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|                                                 |                    |
|-------------------------------------------------|--------------------|
| Explosive properties                            | : Not explosive.   |
| Oxidising properties                            | : Not oxidising.   |
| Lower explosion limit                           | : Not available    |
| Upper explosion limit                           | : Not available    |
| Flash point                                     | : Not applicable   |
| Auto-ignition temperature                       | : Not available    |
| Decomposition temperature                       | : Not available    |
| pH                                              | : 7.22             |
| pH solution                                     | : 7.24 1% solution |
| Viscosity, kinematic                            | : Not available    |
| Solubility                                      | : Readily soluble. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available    |
| Vapour pressure                                 | : Not available    |
| Vapour pressure at 50°C                         | : Not available    |
| Density                                         | : Not available    |
| Relative density                                | : ≈ 1              |
| Relative vapour density at 20°C                 | : Not available    |
| Particle characteristics                        | : Not applicable   |

### 9.2. Other information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Incompatible materials.

### 10.5. Incompatible materials

Strong acids, strong bases and strong oxidants.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified

# Calantha™

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

### Calantha™

LD50 oral rat > 5000 mg/kg bodyweight  
LD50 dermal rat > 5050 mg/kg bodyweight  
LC50 Inhalation - Rat > 5.06 mg/l

Skin corrosion/irritation : Not classified  
pH: 7.22

### Calantha™

Additional information Slightly irritating to rabbits on cutaneous application

Serious eye damage/irritation : Not classified  
pH: 7.22

### Calantha™

Additional information Not irritating to rabbits on ocular application

Respiratory or skin sensitisation : Not classified

### Calantha™

Local Lymph Node Assay, mouse Product is a weak skin sensitizer in laboratory testing.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## 11.2. Information on other hazards

No additional information available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

# Calantha™

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hazardous to the aquatic environment, : Not classified  
long-term (chronic)

### 12.2. Persistence and degradability

#### Calantha™

Persistence and degradability Half-life in soil, sediment, and water: <3 days.

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                                                                      |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                   |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                      |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations. Refer to all applicable national, international and local regulations or provisions. |
| Additional information                     | : Do not re-use empty containers.                                                                                                               |
| Ecological waste information               | : Avoid negligent or unplanned release to the environment.                                                                                      |

## SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |

| ADR                                                                  | IMDG          | IATA          | ADN           | RID           |
|----------------------------------------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.4. Packing group</b>                                           |               |               |               |               |
| Not regulated                                                        | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>                                   |               |               |               |               |
| Not regulated                                                        | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available                               |               |               |               |               |
| <b>14.6. Special precautions for user</b>                            |               |               |               |               |
| <b>Overland transport</b>                                            |               |               |               |               |
| Not regulated                                                        |               |               |               |               |
| <b>Transport by sea</b>                                              |               |               |               |               |
| Not regulated                                                        |               |               |               |               |
| <b>Air transport</b>                                                 |               |               |               |               |
| Not regulated                                                        |               |               |               |               |
| <b>Inland waterway transport</b>                                     |               |               |               |               |
| Not regulated                                                        |               |               |               |               |
| <b>Rail transport</b>                                                |               |               |               |               |
| Not regulated                                                        |               |               |               |               |
| <b>14.7. Maritime transport in bulk according to IMO instruments</b> |               |               |               |               |
| Not applicable                                                       |               |               |               |               |

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU-Regulations****REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (2024/590)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

**Council Regulation (EC) for the control of dual-use items**

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

**Explosives Precursors Regulation (EU 2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (EC 273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

**National regulations****Germany****Air Quality Control (TA Luft)**

| Category | Class | Applicable on | Local name |
|----------|-------|---------------|------------|
|----------|-------|---------------|------------|

**Air Quality Control (TA Luft)**

| Category | Class | Applicable on | Local name |
|----------|-------|---------------|------------|
|----------|-------|---------------|------------|

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: OTHER INFORMATION****Abbreviations and acronyms:**

ACGIH

American Conference of  
Government Industrial Hygienists

|     |                                                                                                 |     |
|-----|-------------------------------------------------------------------------------------------------|-----|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | 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 | ADR |
|-----|-------------------------------------------------------------------------------------|-----|

|                                                                                     |
|-------------------------------------------------------------------------------------|
| European Agreement concerning the International Carriage of Dangerous Goods by Road |
|-------------------------------------------------------------------------------------|

|     |                         |     |
|-----|-------------------------|-----|
| ATE | Acute Toxicity Estimate | ATE |
|-----|-------------------------|-----|

|                         |
|-------------------------|
| Acute Toxicity Estimate |
|-------------------------|

|     |                         |     |
|-----|-------------------------|-----|
| BCF | Bioconcentration factor | BCF |
|-----|-------------------------|-----|

|                         |
|-------------------------|
| Bioconcentration factor |
|-------------------------|

|     |                        |     |
|-----|------------------------|-----|
| BLV | Biological limit value | BLV |
|-----|------------------------|-----|

|                        |
|------------------------|
| Biological limit value |
|------------------------|

|     |                                 |     |
|-----|---------------------------------|-----|
| BOD | Biochemical oxygen demand (BOD) | BOD |
|-----|---------------------------------|-----|

|                                 |
|---------------------------------|
| Biochemical oxygen demand (BOD) |
|---------------------------------|

|         |                                  |         |
|---------|----------------------------------|---------|
| CAS-No. | Chemical Abstract Service number | CAS-No. |
|---------|----------------------------------|---------|

|                                  |
|----------------------------------|
| Chemical Abstract Service number |
|----------------------------------|

## Abbreviations and acronyms:

|         |                                                                             |         |                                                                             |
|---------|-----------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------|
| CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| COD     | Chemical oxygen demand (COD)                                                | COD     | Chemical oxygen demand (COD)                                                |
| CSA     | Chemical safety assessment                                                  | CSA     | Chemical safety assessment                                                  |
| DMEL    | Derived Minimal Effect level                                                | DMEL    | Derived Minimal Effect level                                                |
| DNEL    | Derived-No Effect Level                                                     | DNEL    | Derived-No Effect Level                                                     |
| EC-No.  | European Community number                                                   | EC-No.  | European Community number                                                   |
| EC50    | Median effective concentration                                              | EC50    | Median effective concentration                                              |
| ED      | Endocrine disruptor                                                         | ED      | Endocrine disruptor                                                         |
| EN      | European Standard                                                           | EN      | European Standard                                                           |
| EWC     | European waste catalogue                                                    | EWC     | European waste catalogue                                                    |
| IARC    | International Agency for Research on Cancer                                 | IARC    | International Agency for Research on Cancer                                 |
| IATA    | International Air Transport Association                                     | IATA    | International Air Transport Association                                     |
| IMDG    | International Maritime Dangerous Goods                                      | IMDG    | International Maritime Dangerous Goods                                      |
| LC50    | Median lethal concentration                                                 | LC50    | Median lethal concentration                                                 |
| LD50    | Median lethal dose                                                          | LD50    | Median lethal dose                                                          |
| LOAEL   | Lowest Observed Adverse Effect Level                                        | LOAEL   | Lowest Observed Adverse Effect Level                                        |
| Log Kow | Partition coefficient n-octanol/water (Log Kow)                             | Log Kow | Partition coefficient n-octanol/water (Log Kow)                             |
| Log Pow | Partition coefficient n-octanol/water (Log Pow)                             | Log Pow | Partition coefficient n-octanol/water (Log Pow)                             |
| MAK     | maximum workplace concentration                                             | MAK     | maximum workplace concentration                                             |
| NOAEC   | No-Observed Adverse Effect Concentration                                    | NOAEC   | No-Observed Adverse Effect Concentration                                    |
| NOAEL   | No-Observed Adverse Effect Level                                            | NOAEL   | No-Observed Adverse Effect Level                                            |
| NOEC    | No-Observed Effect Concentration                                            | NOEC    | No-Observed Effect Concentration                                            |
| N.O.S.  | Not Otherwise Specified                                                     | N.O.S.  | Not Otherwise Specified                                                     |
| OECD    | Organisation for Economic Co-operation and Development                      | OECD    | Organisation for Economic Co-operation and Development                      |
| OEL     | Occupational Exposure Limit                                                 | OEL     | Occupational Exposure Limit                                                 |
| OSHA    | Occupational Safety Health Administration                                   | OSHA    | Occupational Safety Health Administration                                   |

**Abbreviations and acronyms:**

|      |                                                                              |      |                                                                              |
|------|------------------------------------------------------------------------------|------|------------------------------------------------------------------------------|
| PBT  | Persistent Bioaccumulative Toxic                                             | PBT  | Persistent Bioaccumulative Toxic                                             |
| PNEC | Predicted No-Effect Concentration                                            | PNEC | Predicted No-Effect Concentration                                            |
| PPE  | Personal protection equipment                                                | PPE  | Personal protection equipment                                                |
| RID  | Regulations concerning the International Carriage of Dangerous Goods by Rail | RID  | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS  | Safety Data Sheet                                                            | SDS  | Safety Data Sheet                                                            |
| STP  | Sewage treatment plant                                                       | STP  | Sewage treatment plant                                                       |
| TF   | Technical function                                                           | TF   | Technical function                                                           |
| ThOD | Theoretical oxygen demand (ThOD)                                             | ThOD | Theoretical oxygen demand (ThOD)                                             |
| TLM  | Median Tolerance Limit                                                       | TLM  | Median Tolerance Limit                                                       |
| TWA  | Time Weighted Average                                                        | TWA  | Time Weighted Average                                                        |
| VOC  | Volatile Organic Compounds                                                   | VOC  | Volatile Organic Compounds                                                   |
| vPvB | Very Persistent and Very Bioaccumulative                                     | vPvB | Very Persistent and Very Bioaccumulative                                     |
| UFI  | Unique Formula Identifier                                                    | UFI  | Unique Formula Identifier                                                    |

## Other information

: **DISCLAIMER:** The information contained herein this Safety Data Sheet (SDS) is provided in good faith and is to the best of GreenLight Biosciences' knowledge and belief, accurate to the specific material designated herein as of the effective date shown above, and does not purport to be all inclusive, and shall only be used as a guide, and may not be valid for use of said material in combination with any other materials or in any process. GREENLIGHT BIOSCIENCES MAKES NO REPRESENTATIONS, GUARANTEES, OR WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE, OR ANY OTHER WARRANTY AS TO THE SAFETY OF THE GOODS, OR CONCERNING THE INFORMATION'S ACCURACY, RELIABILITY, OR COMPLETENESS. User is solely responsible for determining whether GreenLight Biosciences' material is fit for a particular purpose and suitable for User's method of use or application. It is the User's responsibility to ensure that User's activities comply with all federal, state, provincial or local laws. The information presented herein pertains only to the material as shipped. GreenLight Biosciences shall not be held liable for any damage whatsoever resulting from handling and/or from contact with the above referenced material nor shall GreenLight Biosciences be liable for results obtained or for any incidental or consequential damages arising from the use of this information or for any loss or damage that may occur from the use of this information or material. No freedom from infringement of any patent, copyright or trademark is to be inferred. Not for drug, household, or other uses.

## The classification complies with

: ATP 12

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.