

# Material Safety Data Sheet LabTIE Freeze-Dried OP50

according to 1907/2006/EC, Article 31

## 1 Identification

### 1.1 Product identifier

- Trade name: LabTIE Freeze-dried OP50
- Product ID: 'OP50 C.elegans nutrition'

### 1.2 Relevant identified uses of the substance

- **uses:** Laboratory Chemicals.
- **uses advised against:** not to be used for human consumption, see also section 2

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

- **Manufacturer and Supplier:**

LabTIE By MolGen  
Traverse 2  
3905 NL Veenendaal  
the Netherlands

tel: +31 (0) 85 – 200 7431

Customer support email: [info@molgen.com](mailto:info@molgen.com)

- **Emergency telephone number:**

+31 (0) 85 – 200 7431 to be used in the event of an EMERGENCY . However first consult section 4.

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**  
R22: Harmful if swallowed.  
H302 Harmful if swallowed.

### 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:**
- **Product identifier:**  
Trade name: *LabTIE Freeze-dried OP50 E. Coli*  
Product ID: 'OP50 C.elegans nutrition'
- **Code letter and hazard designation of product:**



Xn Harmful

- **Risk phrases:**  
22 Harmful if swallowed.
- **Safety phrases:**  
20 When using do not eat or drink.  
22 Do not breathe / inhale dust.  
25 Avoid contact with eyes.  
35 This material and its container must be disposed of in a safe way.
- **Routes of exposure: Ingestion**

### 2.3 Other hazards

- **Results of PBT and vPvB assessment**  
**PBT:** None, not applicable.  
**vPvB:** None, not applicable.

### 3 Composition/information on ingredients

#### 3.1 Substances

- **EC No:** there is no product identifier in accordance with Article 18(2) of Regulation (EC) No 1272/2008
- **CAS No. Description:** Escherichia coli (E. coli) bacteria - freeze dried
- **Additional information:** This product does not contain any compounds derived from animals or substances fulfilling the criteria of hazard class "acute toxicity" according to CLP regulation.

### 4 First-aid measures

#### 4.1 Description of first aid measures

- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **Following inhalation:** Supply fresh air; consult doctor in case of complaints.
- **Following skin contact:** Rinse, with water and soap.
- **Following eye contact:** Rinse opened eye for several minutes under running water.
- **Following ingestion:** Immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### 5 Fire-fighting measures

#### 5.1 Extinguishing media:

- **Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray.

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

No further relevant information available.

#### 5.3 Advice for firefighters:

No special protective actions or protective equipment are required.

## 6 Accidental release measures

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

- For non-emergency personnel: wear protective (lab) clothing.
- For emergency responders: if possible avoid contact with substance. Else see section 4

### 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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

Dispose contaminated material as waste according to section 13.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

### 7.1 Precautions for safe handling:

- Prevent formation of dust.

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

- Storage in accordance with product specification

### 7.3 Specific end uses:

- No further relevant information available.

## 8 Exposure controls/personal protection

### 8.1 Control parameters:

**8.1.1 Occupational exposure limits:** Not applicable

**8.1.2 Biological limit values:** Not applicable

**8.1.3 Exposure limits at intended use:** Not applicable

**8.1.4 DNEL/PNEC-values:** No Acute or Long-term effects, see also section 4

### 8.2 Exposure controls:

**8.2.1. Appropriate engineering controls:** Not applicable

#### 8.2.2 Personal protective equipment:

- **Eye protection:** Safety glasses
- **Skin / Body protection:** Lab coat / full sleeve clothing
- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work. Preferable use an Alcohol Gel to sanitize hands.
- **Respiratory protection:** In principle use a laminar flow hood, however in case of brief exposure or low pollution use hygiene mask as a minimum and/or respiratory filter device.
- **Protection of hands:** Protective synthetic gloves.

**8.2.3 Environmental exposure controls:** Not applicable

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state:** powder / solid

**Color:** Light yellow

**Odor:** none if dry

Property	Value
pH	6.8 – 7.2
Flammability (solid, gas)	Not flammable
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Explosive properties	Product does not present an explosion hazard
Oxidizing properties	None
Solubility in / Miscibility with water	Fully miscible
Organic solvents	0%
Solid content	100%

## 10 Stability and reactivity

- 10.1 **Reactivity:** Bio substance, not reactive, no further relevant information available.
- 10.2 **Chemical stability:** No decomposition if used according to specifications.
- 10.3 **Possibility of hazardous reactions:** No dangerous reactions known
- 10.4 **Conditions to avoid:** No further relevant information available.
- 10.5 **Incompatible materials:** No further relevant information available.
- 10.6 **Hazardous decomposition products:** No dangerous decomposition products known

## 11 Toxicological information

### 11.1 Information on toxicological effects

#### 11.1.1 Substances:

- **Acute toxicity:** None
- **Skin and Eye irritation:** No irritant effect.
- **Sensitization:** No sensitizing effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
  - **IARC (International Agency for Research on Cancer):** Substance is not listed.
  - **NTP (National Toxicology Program):** Substance is not listed.

## 12 Ecological information

### 12.1 Toxicity:

- **Aquatic toxicity:** Not toxic.

12.2 **Persistence and degradability:** fully bio-degradable.

12.3 **Bioaccumulative potential:** No further relevant information available.

12.4 **Mobility in soil:** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 **Other adverse effects:** No further relevant information available.

## 13 Disposal considerations

### 13.1 Waste treatment methods:

- **Recommendation:** do not dispose of together with household garbage. Do not allow product to reach sewage system untreated.
- **Waste treatment options:** dissolve in water and autoclave before disposal.
- **Packaging's:** Disposal must be made according to official regulations.

## 14 Transport information

- 14.1 UN-Number:** UN3373
- 14.2 UN proper shipping name:** Biological substance, Category B
- 14.3 Transport hazard class(es):**
- DOT, ADR, ADN, IMDG, IATA
  - Class Void
- 14.4 Packing group:**
- DOT, ADR, IMDG, IATA
  - Class Void
- 14.5 Environmental hazards:**
- Marine pollutant: No
- 14.6 Special precautions for user:** Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

## 15 Regulatory information

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

- **SARA (Superfund Amendments and Reauthorization Act of 1986 - USA):**
  - **Section 302/304 (40CFR355.30 / 40CFR355.40):** Substance not listed.
  - **Section 313 (40CFR372.65):** Substance is not listed.
  - **TSCA (Toxic Substances Control Act):** Substance is not listed.
- **Carcinogenic categories:**
  - **EPA (Environmental Protection Agency):** Substance is not listed.
  - **TLV (Threshold Limit Value established by ACGIH):** Substance is not listed.
  - **MAK (German Maximum Workplace Concentration):** Substance is not listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health):** Substance is not listed.
  - **OSHA-Ca (Occupational Safety & Health Administration):** Substance is not listed.

## 16 Other information Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and implies no liability or other legal responsibility.

**Version:** 3.0b

**Reviewed:** May 3, 2019

**Published:** May 4, 2019

**Contact:** [info@molgen.com](mailto:info@molgen.com)

### Abbreviations and acronyms:

**ACGIH:** American Conference of Governmental Industrial Hygienists

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**CAS:** Chemical Abstracts Service (division of the American Chemical Society)

**DNEL:** Derived No-Effect Level

**DOT:** US Department of Transportation

**EC:** European Community

**IATA:** International Air Transport Association

**IMDG:** International Maritime Code for Dangerous Goods

**OSHA:** The Occupational Safety and Health Administration - agency of the United States Department of Labor

**PBT/vPvB:** Persistent, Bioaccumulative and Toxic / very Persistent and very Bioaccumulative

**PNEC:** Predicted No Effect Concentration

**SARA:** Superfund Amendments and Reauthorization Act of 1986 – USA

**TSCA:** Toxic Substances Control Act

**UN:** United Nations