



# SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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## PALCAM Broth

Revision 1  
Revision date 2019-01-17

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

|              |                       |
|--------------|-----------------------|
| Product name | PALCAM Broth          |
| Product code | NCM0049, 7670, LAB144 |

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

|             |   |
|-------------|---|
| Product Use | [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PROC15] Use as laboratory reagent; |
|-------------|---|

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

|           |  |
|-----------|--|
| Company   | Neogen Corporation                           |
| Address   | 620 Leshler Place<br>Lansing MI 48912<br>USA |
| Web       | www.neogen.com                               |
| Telephone | 517-372-9200/800-234-5333                    |
| Email     | regulatorysupport@neogen.com                 |

#### 1.4. Emergency telephone number

|                            |                |
|----------------------------|----------------|
| Emergency telephone number | 1-800-234-5333 |
|----------------------------|----------------|

#### Further information

|                  |   |
|------------------|---|
| Manufactured By: | Neogen Corporation<br>740 East Shiawassee<br>Lansing, MI 48912 U.S.A.<br><br>Neogen Corporation<br>1 Quest Park-Moss Hall Road<br>Heywood Lancashire BL97JJ UK. |
| Hotline(s):      | Medical: United States (1-800-498-5743), International (1-651-523-0318).<br>Spill/CHEMTREC: United States (1-800-424-9300), International (1-703-527-3887).     |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

|                                      |  |
|--------------------------------------|--|
| 2.1.2. Classification - EC 1272/2008 | Skin Irrit. 2: H315; Eye Irrit. 2: H319; |
|--------------------------------------|--|


#### 2.2. Label elements

P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P501 - Dispose of contents/container to an appropriate waste site or reclaim (in accordance with local/regional/national/international regulation).

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## 2.2. Label elements

|                                     |  |
|-------------------------------------|--|
| Hazard pictograms                   |   |
| Signal Word                         | Warning  |
| Hazard Statement                    | Skin Irrit. 2: H315 - Causes skin irritation.<br>Eye Irrit. 2: H319 - Causes serious eye irritation.   |
| Precautionary Statement: Prevention | P264 - Wash thoroughly after handling.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.  |
| Precautionary Statement: Response   | P302+P352 - IF ON SKIN: Wash with plenty of water/ .<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P321 - Specific treatment (see on this label).<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention. |

## 2.3. Other hazards

|               |  |
|---------------|--|
| Other hazards | This product is not identified as a PBT substance. |
|---------------|--|

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

| Chemical Name           | Index No.    | CAS No.   | EC No.    | REACH Registration Number | Conc. (%w/w) | Classification   |
|-------------------------|--------------|-----------|-----------|---------------------------|--------------|--|
| Lithium Chloride        |              | 7447-41-8 | 231-212-3 |                           | 10 - 20%     | Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; |
| Ferric Ammonium Citrate |              | 1185-57-5 | 214-686-6 |                           | 1 - 10%      | Skin Irrit. 2: H315; Eye Irrit. 2: H319;                     |
| Sodium carbonate        | 011-005-00-2 | 497-19-8  | 207-838-8 |                           | 1 - 10%      | Eye Irrit. 2: H319;  |

Full text for all Risk Phrases mentioned in this section are displayed in Section 16. Exposure Limit Values. See section 8 for further information.

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

|              |  |
|--------------|--|
| Inhalation   | In case of accident by inhalation: remove casualty to fresh air and keep at rest.  |
| Eye contact  | Contact lenses should be removed. Rinse immediately with plenty of water for 15 minutes holding the eyelids open.              |
| Skin contact | After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.            |
| Ingestion    | Keep the affected person warm and at rest. DO NOT INDUCE VOMITING unless advised to do so by a doctor. Rinse mouth thoroughly. |

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

|              |   |
|--------------|---|
| Inhalation   | May cause irritation to respiratory system. |
| Eye contact  | May cause irritation to eyes.               |
| Skin contact | May cause irritation to skin.               |
| Ingestion    | Ingestion may cause nausea and vomiting.    |

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

|              |  |
|--------------|--|
| Inhalation   | Seek medical attention if irritation or symptoms persist.                |
| Eye contact  | Seek medical attention. Risk of serious damage to eyes.                  |
| Skin contact | Seek medical attention if irritation or symptoms persist.                |
| Ingestion    | If you feel unwell, seek medical advice (show the label where possible). |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|  |  |
|--|--|
|  | Use as appropriate: Carbon dioxide (CO <sub>2</sub> ), Alcohol resistant foam, Powder. |
|--|--|

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

|  |   |
|--|---|
|  | Burning produces irritating, toxic and obnoxious fumes. |
|--|---|

### 5.3. Advice for firefighters

|  |   |
|--|---|
|  | In case of fire and/or explosion do not breathe fumes. Wear suitable respiratory equipment when necessary. Wear suitable protective clothing, gloves and eye/face protection. |
|--|---|

## SECTION 6: Accidental release measures

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

|  |   |
|--|---|
|  | Avoid contact with skin and eyes. Wear eye/face protection. |
|--|---|

### 6.2. Environmental precautions

|  |   |
|--|---|
|  | Do not empty into drains; dispose of this material and its container in a safe way. |
|--|---|

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

|  |   |
|--|---|
|  | Avoid raising dust. Sweep up. Dispose of in compliance with all local and national regulations. |
|--|---|

### 6.4. Reference to other sections

|  |   |
|--|---|
|  | See section 8 & 13 for further information. |
|--|---|

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|  |  |
|--|--|
|  | Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product. |
|--|--|

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

|  |  |
|--|--|
|  | Store at temperatures between 2 °C and 30 °C. Store in original container. Keep container tightly closed and dry. Protect from moisture. |
|--|--|

### 7.3. Specific end use(s)

|  |  |
|--|--|
|  | See section 1.2 for further information. |
|--|--|

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|  |  |
|--|--|
|  | Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. |
|--|--|

#### 8.1.1. Exposure Limit Values

|  |  |
|--|--|
|  |  |
|--|--|


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## 8.1.1. Exposure Limit Values

|                         |   |   |
|-------------------------|---|---|
| Ferric Ammonium Citrate | WEL 8-hr limit ppm:                         | WEL 8-hr limit mg/m3: 1                       |
|                         | WEL 15 min limit ppm:                       | WEL 15 min limit mg/m3:                       |
|                         | WEL 8-hr limit mg/m3 total inhalable dust:  | WEL 15 min limit mg/m3 total inhalable dust:  |
|                         | WEL 8-hr limit mg/m3 total respirable dust: | WEL 15 min limit mg/m3 total respirable dust: |
|                         |   |   |
|                         |   |   |

## 8.2. Exposure controls

|   |  |
|---|--|
|   |    |
| 8.2.1. Appropriate engineering controls | Ensure adequate ventilation of the working area.   |
| 8.2.2. Individual protection measures   | Use as appropriate:.   |
| Eye / face protection                   | safety glasses with side-shields.  |
| Skin protection - Handprotection        | Chemical resistant gloves.   |
| Skin protection - Other                 | Wear suitable protective clothing.   |
| Respiratory protection                  | Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment.                             |
| Thermal hazards                         | No data is available on this product.  |
| 8.2.3. Environmental exposure controls  | Avoid release to the environment. Refer to special instructions/Safety data sheets. See section 7 for further information. |

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

|                                  |                   |
|----------------------------------|-------------------|
| <b>Appearance</b>                | Powder            |
| <b>Colour</b>                    | Beige             |
| <b>Odour</b>                     | Characteristic    |
| <b>Odour threshold</b>           | Not applicable.   |
| <b>pH</b>                        | 7.2 - 7.6         |
| <b>Melting point</b>             | No data available |
| <b>Freezing Point</b>            | No data available |
| <b>Initial boiling point</b>     | No data available |
| <b>Flash point</b>               | Not applicable.   |
| <b>Evaporation rate</b>          | No data available |
| <b>Flammability (solid, gas)</b> | Not applicable.   |
| <b>Vapour pressure</b>           | Not applicable.   |
| <b>Vapour density</b>            | Not applicable.   |
| <b>Relative density</b>          | No data available |
| <b>Fat Solubility</b>            | No data available |
| <b>Partition coefficient</b>     | No data available |
| <b>Autoignition temperature</b>  | Not applicable.   |
| <b>Viscosity</b>                 | No data available |
| <b>Explosive properties</b>      | Not applicable.   |
| <b>Oxidising properties</b>      | Not applicable.   |
| <b>Solubility</b>                | No data available |

## 9.2. Other information

|   |                   |
|---|-------------------|
| <b>Conductivity</b>                     | No data available |
| <b>Surface tension</b>                  | No data available |
| <b>Gas group</b>                        | Not applicable.   |
| <b>Benzene Content</b>                  | No data available |
| <b>Lead content</b>                     | No data available |
| <b>VOC (Volatile organic compounds)</b> | No data available |

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

|  |  |
|--|--|
|  | Stable under normal conditions. See section 7 for further information. |
|--|--|

## 10.2. Chemical stability

|  |   |
|--|---|
|  | Will not decompose if stored and used as recommended. |
|--|---|

## 10.3. Possibility of hazardous reactions

|  |  |
|--|--|
|  | No precautions required to be mentioned. Stable under normal conditions. |
|--|--|

## 10.4. Conditions to avoid

|  |  |
|--|--|
|  | No precautions required to be mentioned. |
|--|--|

## 10.5. Incompatible materials

|  |  |
|--|--|
|  | No precautions required to be mentioned. |
|--|--|

## 10.6. Hazardous decomposition products

|  |   |
|--|---|
|  | Carbon oxides, Organic materials may be formed in fire conditions. Fire will produce dense black smoke. |
|--|---|

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|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | No data is available on this product. See section 3 for further information.                   |
| Skin corrosion/irritation         | May cause irritation to skin. See section 3 for further information.                           |
| Serious eye damage/irritation     | May cause irritation to eyes. See section 3 for further information.                           |
| Respiratory or skin sensitisation | May cause sensitisation by inhalation and skin contact. See section 3 for further information. |
| Germ cell mutagenicity            | No data is available on this product.  |
| Carcinogenicity                   | No data is available on this product.  |
| Reproductive toxicity             | No data is available on this product.  |
| STOT-single exposure              | No data is available on this product.  |
| STOT-repeated exposure            | No data is available on this product.  |
| Aspiration hazard                 | No data is available on this product. See section 3 for further information.                   |
| Repeated or prolonged exposure    | No data is available on this product. See section 3 for further information.                   |

**11.1.2. Mixtures**

|  |  |
|--|--|
|  | See section 3 for further information. |
|--|--|

**11.1.3. Hazard Information**

|  |  |
|--|--|
|  | See section 3 for further information. |
|--|--|

**11.1.4. Toxicological Information**

|  |                                       |
|--|---------------------------------------|
|  | No data available                     |
|  | No data is available on this product. |

**11.1.5. Hazard Class**

|  |  |
|--|--|
|  | See section 2 for further information. |
|--|--|

**11.1.6. Classification Criteria**

|  |  |
|--|--|
|  | See section 2 for further information. |
|--|--|

**11.1.7. Information on likely routes of exposure**

|  |                           |
|--|---------------------------|
|  | Skin contact. Inhalation. |
|--|---------------------------|

**11.1.8. Symptoms related to the physical, chemical and toxicological characteristics**

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

**11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

**11.1.10. Interactive effects**

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

**11.1.11. Absence of specific data**

|  |                    |
|--|--------------------|
|  | No data available. |
|--|--------------------|

**11.1.12. Mixture versus substance information**

|  |                 |
|--|-----------------|
|  | Not applicable. |
|--|-----------------|

**11.1.13. Other information**

|  |                 |
|--|-----------------|
|  | Not applicable. |
|--|-----------------|

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## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data is available on this product.

### 12.3. Bioaccumulative potential

No data is available on this product.

### Partition coefficient

**PALCAM Broth** No data available

### 12.4. Mobility in soil

No data is available on this product.

### 12.5. Results of PBT and vPvB assessment

No data is available on this product.

### 12.6. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations.

### Disposal methods

Contact a licensed waste disposal company. Do not flush into surface water. This material and its container must be disposed of in a safe way.

### Disposal of packaging

Empty containers can be sent for disposal or recycling. Containers can be recycled if in compliance with local and national regulations. Do NOT reuse empty containers.

## SECTION 14: Transport information

### 14.1. UN number

The product is not classified as dangerous for carriage.

### 14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

### 14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

### 14.4. Packing group

The product is not classified as dangerous for carriage.

### 14.5. Environmental hazards

The product is not classified as dangerous for carriage.

### 14.6. Special precautions for user

The product is not classified as dangerous for carriage.

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## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

## SECTION 15: Regulatory information

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

## Regulations

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

## 15.2. Chemical safety assessment

No data is available on this product.

## SECTION 16: Other information

## Other information

|  |  |
|--|--|
|  | <p>DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</p> |
| Revision                               | <p>This document differs from the previous version in the following areas:.</p> <p>3 - 3.2. Mixtures.</p> <p>9 - 9.1. Information on basic physical and chemical properties (PH).</p> <p>12 - 12.1. Toxicity.</p>  |
| Text of Hazard Statements in Section 3 | <p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p>  |