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

1.1 Product identifier
- Product name: Legionella pneumophila serogroup 1
- Part number: LGCMIC-RM47-10

1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- Application of the substance / the mixture Reference material for laboratory use only

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  LGC Limited
  Queens Road
  Teddington
  Middlesex TW11 0LY
  UNITED KINGDOM

- Further information obtainable from:
  Product safety department
eMail: sds-request@lgcgroup.com

1.4 Emergency telephone number: +44 (0) 20 8943 7000 (Monday - Friday : 8am - 5pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  GHS07
  Acute Tox. 4 H302 Harmful if swallowed.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.
- Hazard pictograms
  GHS07

- Signal word Warning
- Hazard statements
  H302 Harmful if swallowed.
- Precautionary statements
  P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.

(Contd. on page 2)
**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
  - **Description:** Also contains substances at levels not considered to be hazardous.
  - **Mixture:** consisting of the following components.
  - **Dangerous components:** Not applicable
  - **Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - **General information:**
    - Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.
    - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
    - **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
    - **After eye contact:** Rinse opened eye for several minutes under running water.
    - **After swallowing:** Rinse mouth. Do not induce vomiting.
      - Seek medical treatment.
  - **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
  - **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
  - **Special hazards arising from the substance or mixture**
    - Formation of toxic gases is possible during heating or in case of fire.
  - **Advice for firefighters**
    - **Protective equipment:** Wear self-contained respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:
Dispose of contaminated material as waste according to item 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Store in cool, dry place in tightly closed receptacles.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.
Store only in the original receptacle unless other advice is given on the CoA.
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: None.

7.3 Specific end use(s)
No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: Lists used were valid at the time of SDS preparation.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

Respiratory protection:
Not required.
Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
**Product name:** Legionella pneumophila serogroup 1

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

**Protective gloves**

- **Material of gloves** Only use chemical-protective gloves with CE-labelling of category III.
- **Penetration time of glove material** The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

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**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - Form: Solid
      - Colour: Off white
      - Odour: Odourless
      - Odour threshold: Not determined.
    - **pH-value:** Not applicable.
  - **Change in condition**
    - Melting point/freezing point: Not determined.
      - Initial boiling point and boiling range: Not determined.
    - Flash point: Not applicable.
  - **Flammability (solid, gas):** Not determined.
  - **Ignition temperature:** Not determined
  - **Decomposition temperature:** Not determined.
  - **Auto-ignition temperature:** Product is not selfigniting.
  - **Explosive properties:** Not determined.
  - **Explosion limits:**
    - Lower: Not determined.
    - Upper: Not determined.
  - **Vapour pressure:** Not applicable.
  - **Density:** Not determined.
  - **Relative density** Not determined.
  - **Vapour density** Not applicable.
Evaporation rate: Not applicable.

Solubility in / Miscibility with water: Insoluble.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:
- Dynamic: Not applicable.
- Kinematic: Not applicable.

9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
Stable under normal conditions.
No further relevant information available.

10.2 Chemical stability
Stable under normal conditions.

Thermal decomposition / conditions to be avoided:
Formation of toxic gases is possible during heating or in case of fire.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
Heat.

10.5 Incompatible materials:
Strong oxidizing agents.

10.6 Hazardous decomposition products:
Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Harmful if swallowed.

Primary irritant effect:
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes: Not known to be hazardous to water.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- European waste catalogue
  Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- Uncleaned packaging:
  - Recommendation: Dispose of in accordance with national regulations.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, IMDG, IATA UN3373
- ADR 3373 BIOLOGICAL SUBSTANCE, CATEGORY B
- IMDG, IATA BIOLOGICAL SUBSTANCE, CATEGORY B
- 14.3 Transport hazard class(es)
  - ADR, IMDG, IATA
  - Class 6.2 Infectious substances.
  - Label 6.2
- 14.4 Packing group
  - ADR, IMDG, IATA Not applicable
- 14.5 Environmental hazards:
  Not applicable.

(Contd. on page 7)
Safety data sheet
geraccording to 1907/2006/EC, Article 31

Printing date 10.07.2019  Version number 2  Revision: 10.07.2019

Product name: Legionella pneumophila serogroup 1

- 14.6 Special precautions for user
  - Warning: Infectious substances.
  - Danger code (Kemler): 606
  - EMS Number: F-A,S-T
  - Stowage Category C
  - Stowage Code SW2 Clear of living quarters.
  - SW18 Category A, when transported in accordance with P650.

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.

- Transport/Additional information:
  - ADR
  - Limited quantities (LQ): 0
  - Excepted quantities (EQ): Code: E0
    Not permitted as Excepted Quantity
  - Transport category -
  - Tunnel restriction code -
  - UN "Model Regulation": UN 3373 BIOLOGICAL SUBSTANCE, CATEGORY B, 6.2

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user’s intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Nonified Chemical Substances

(Contd. on page 8)
Product name: Legionella pneumophila serogroup 1

- **CAS**: Chemical Abstracts Service (division of the American Chemical Society)
- **PBT**: Persistent, Bioaccumulative and Toxic
- **vPvB**: very Persistent and very Bioaccumulative
- **Acute Tox. 4**: Acute toxicity – Category 4

**Sources**


- **Data compared to the previous version altered.** All sections have been updated.