

Version: 20110505 Released: 05 NOV 2020

Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 Product identifiers

Product Name: PhageGuard Listex[™]

Product code: 106, 107 (100 mL), 105 (1000 mL)

CAS-No.: N.A.

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

Liquid P100 phage culture which kills Listeria monocytogenes in food.

1.3 Details of the supplier of the safety data sheet

Manufacturer: MICREOS FOOD SAFETY B.V.

Nieuwe Kanaal 7P

6709 PA, The Netherlands Tel: +31 88 8007 151

1.4 Emergency telephone number

Emergency Phone : +31-6-53322700

Section 2. HAZARDS IDENTIFICATION

 ${\bf 2.1}\, {\bf Classification} \ {\bf of} \ {\bf the} \ {\bf substance} \ {\bf or} \ {\bf mixture}$

US: The product contains no substances which at their given concentration is

considered to be hazardous to health.

EC: Not a hazardous substance or mixture according to Regulation (EC) No.

1272/2008.

2.2. Label elements

The product does not need to be labelled in accordance with EC directives or respective other national laws.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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Section 3. COMPOSITION/INFORMATION OF INGREDIENTS

Mixture

Components EC-No. CAS-No. Weight, % 7732-18-5 Water 231-791-2 80-83 Potassium Lactate 288-752-8 996-31-6 17-20 Ferment < 0.1 n.a. n.a 0.0033 P100 phage culture n.a n.a

Physical State and Appearance: Clear to slightly opaque, colorless to slightly yellow liquid

Section 4. FIRST-AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance.

Inhalation: Move to fresh air.

Skin contact: Wash off with water.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion: Drink water.

Major effects of exposure: May cause eye irritation with susceptible persons

Section 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water, carbon dioxide (CO2), foam.

Extinguishing media which None. must not be used for safety reasons

Specific hazards Burning produces irritant fumes.

Special protective

equipment for firefighters

None.

Specific methods Standard procedure for chemical fires.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with eyes.

Environmental precautions No special environmental precautions required.

Methods for cleaning up Flush with water.



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Section 7. HANDLING AND STORAGE

Handling: No special precautions required.

Storage: Keep refrigerated at 36-46°F (2-8°C). Do not freeze.

Avoid temperatures above 99°F (37°C).

Section 8. EXPOSURE CONTROLS/PERSONEL PROTECTION

Engineering measures

to reduce exposure

Insure adequate ventilation, especially in confined areas.

Control parameters None.

Personal protection

equipment

No special protective equipment required.

Hygiene measures Handle in accordance with good industrial hygiene and

safety practice.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Odorless.

Physical State and Appearance: Clear to slightly opaque, colourless to slightly yellow liquid

Molecular Weight: Not applicable. Molecular Formula: Not applicable. pH: 6.0 - 8.0Boiling/Condensation Point: Not applicable Melting/Freezing Point: Not applicable Vapor pressure: Not available Density: Not available Solubility: Soluble in water Viscosity: Not available Flash Point: Not applicable Flammability Limits: Not self-igniting

Section 10. STABILITY AND REACTIVITY

Stability Shelf life 6 months when refrigerated at 36-46°F (2-8°C).

Conditions to avoid Temperatures outside 36-46°F (2-8°C). Do not freeze.

Temperatures above 99°F(37°C).

Materials to avoid None.

Hazardous decomposition

products

Carbon oxides.



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Section 11. TOXICOLOGICAL INFORMATION

Bioinformatical analysis of the phage genomes showed an absence of genes encoding known virulence factors and toxins.

Chronic Effects on Humans: Health injuries are not known or expected under normal use.

Acute Effects on Humans: None

Irritancy: May cause eye irritation with susceptible persons.

Sensitization: Non-sensitizing

Carcinogenic Effects: The product is not known to cause cancer in animals or

humans.

Toxicity to Reproductive System: Not available.
Teratogenic Effects: Not available.
Mutagenic Effects: Not available.

Repeated high dose toxicology study in rats: normal histomorphometric limits.

Section 12. ECOLOGICAL INFORMATION

PhageGuard ListexTM is believed not to be dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulative potential, aquatic toxicity and other data pertaining to ecotoxicity.

Section 13. DISPOSAL CONSIDERATIONS

EPA Waste Number: Not available

Treatment: The product does not have an EPA Waste Code and is no

listed waste. Always contact a permitted waste disposal site (TSD) to assure compliance with all current local, state, and Federal

Regulations.

EC There are no uniform EC regulations for the disposal. Small

quantities of waste are disposed of as domestic refuse. Large quantities are disposed of in accordance with the local

regulations.

Section 14. TRANSPORT INFORMATION

DOT Classification: Not applicable IMO/IMDG Classification: Not applicable ICAO/IATA Classification: Not applicable

Storage: Keep refrigerated at 36-46°F (2-8°C). Do not freeze.

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Section 15. Regulatory Information

U.S. Federal Regulations: FDA & USDA approved PhageGuard Listex[™] as a "GRAS" GRN. 000218

(Generally Recognized as Safe) food processing aid against Listeria

EC When in use as a processing aid, PhageGuard Listex™ is exempted under

EU law and free from labelling under Directive 2000/13/EC.

Section 16. Other Information

This data sheet complies with EU Directive 91/155 as amended. Product specifications are available on request.

This information relates to the specified material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability and completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. Health and safety information is directed towards the safe use rather than the commercial performance of the product.



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