

ENGLISH

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

1.1 Product identifiers

Product name: Listeria Oxford Agar
Product Number: 610167-620167

1.2 Identified uses of the relevant substance or mixture and uses advised against

Identified uses relevant: Professional uses, Health Services, scientific research and development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Liofilchem®
Address: Via Scozia, 64026 - Roseto degli Abruzzi (TE)
Telephone number: 085/8930745
Fax number: 085/8930330
E-mail address: liofilchem@lioilchem.com

1.4 Emergency telephone number

+39 02-66101029 (Centro Antiveleni Niguarda Cà Granda - Milano).

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute Tox. 3, Acute Toxicity, Orale (Category 2); H301
Skin Irrit. 2, Skin Irritation (Category 2); H315
Eye Irrit. 2, Eye Irritation (Category 2); H319
Repr. 1B, Reproductive toxicity (Category 1B); H360

2.2 Label elements

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

Pictogram



Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H360d May damage the unborn child

Precautionary statement(s)

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P264 Wash the skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves, protective clothing, eye protection and face protection
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352 IF ON SKIN: Wash with soap and water
P305 + P351 + P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention
P321 Specific treatment
P330 Rinse mouth
P332 + P313 If skin irritation occurs: Get medical advice/attention
P337 + P313 If eye irritation persists: Get medical advice/attention
P362 Take off contaminated clothing
P405 Store locked up
P501 Dispose of product and container in accordance with local regulations

Supplemental Hazard Statements

none

2.3 Other hazards –

This 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.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous substances

CAS n°	EC n°	Index n°	Registration number REACH	Concentration	Classification according Regulation (EC) No 1272/2008
Lithium chloride					
7447-41-8	231-212-3	-	-	24.6 %	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2 H302, H315, H319
Cycloeximide					
66-81-9	200-636-0	-	-	0,7 %	Acute Tox. 2; Skin Irrit. 2; Muta. 2; Repr. 1B; Aquatic Chronic 2; H300, H315, H341, H360, H411.

Additional Information:

For full text of H-statements, see SECTION 16

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

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

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment. Avoid dust formation. Avoid breathing vapours/mist/gas. Provide adequate ventilation. Do not inhale dust

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

6.3 Metodi e materiali per il contenimento e per la bonifica

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For information on safe handling, see Chapter 7.
 For information on personal protection equipment see Chapter 8.
 For disposal information see Chapter 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Avoid the formation of dust and the dispersion of the product in the air. To adopt adequate ventilation in places where dust develops. Avoid exposure - obtain special instructions first of use.
 Do not eat, drink and smoke in work areas, wash hands after use; and remove contaminated clothing and devices protection before entering eating areas

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
 Recommended storage temperature, see the product label.

7.3 Specific end uses

Apart from the uses described in section 1.2 are not covered other specific uses.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

- **Lithium chloride (CAS 7447-41-8)**
DNEL (Derived No Effect Level):
 worker, acute, by inhalation: 30 mg/m³
 worker, long term, by inhalation: 10 mg/m³
 user, long term, by inhalation: 10 mg/m³
- **PNEC (Predicted No-Effect Concentration):**
 fresh water: 10.4 mg/l
 freshwater sediment: 49.9 mg/kg
 sea water 1.004 mg/l
 marine sediment: 4.99 mg/kg
 soil: 4.13 mg/kg
 sewage treatment plant: 140.2 mg/L

8.2 Exposure controls

Exposure controls

Handle in accordance with good hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eyes/Face Protection: It is advisable wear safety goggles
 Skin protection: Handle with gloves
 Body Protection: Use protective clothes in accordance with laboratory good practices.
 Respiratory protection: It is advisable wear dust mask.

Environmental exposure control

For information relating to environmental precautions, see chapter 6.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form Powder
 Color Beige

Odour

No data available

pH

7.0 ± 0.2 at 60.9 g/l a 25 °C

Melting point/ freezing point

No data available

Initial boiling point and boiling range

No data available

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Upper / lower flammability or explosive limits

No data available

Flash point

Not applicable

Auto-ignition temperature

Not applicable

Decomposition temperature

Not applicable

Vapour pressure

No data available

Vapour density

No data available

Relative density

No data available

Water solubility

Soluble

Partition coefficient: n-octanol/water

Viscosity

Explosive properties

Oxidizing properties

Not applicable

No data available

No data available

No data available

9.2 Other safety information

no data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Exposure to direct solar light.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

No decomposition when used for the intended uses.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Toxicity of the mixture 50 mg/kg < STAmix (Oral) < 300 mg/kg

- **Lithium chloride (CAS 7447-41-8)**
DL50 Oral - Rat - male - 526 mg/kg
CL50 Inalation - Rat - male - 4 h - > 5,57 mg/l
DL50 Dermico - Rat - male - > 2.000 mg/kg
- **Cicloeximide (CAS 66-81-9)**
DL50 Oral - Rat - male - 2 mg/k

Skin corrosion/irritation:

- **Lithium chloride (CAS 7447-41-8)**
Skin - On rabbit
Result: Severe skin irritation - 24 h
- **Cicloeximide (CAS 66-81-9)**
Skin - On rabbit
Result: Severe skin irritation - 24 h

Serious eye damage/eye irritation:

- **Lithium chloride (CAS 7447-41-8)**
Eyes - On rabbit
Result: Irritating to eyes

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

Reproductive toxicity:

- **Cicloeximide (CAS 66-81-9)**
It can cause birth defects in the fetus. Presumed toxic to human reproduction

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional information: RTECS: no data available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

This mixture contains no substances evaluated PBT or vPvB

12.6 Endocrine disrupting properties

The mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Not be disposed of with household waste. Do not discharge into sewers.

The product must be specially treated adhering to official regulations administrative. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: UN 2811 IMDG: : UN 2811 IATA: UN 2811

14.2 UN proper shipping name

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximide)

IMDG: TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximide)

IATA: TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximide)

14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG: no IATA: no

14.6 Special precautions for user

no data available

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

no data available

15. REGULATORY INFORMATION

This safety datasheet complies with:

- the requirements of European Parliament and of the Council Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and Commission Regulation (EU) No. 453/2010 amending Commission Regulation (EC) No. 1907/2006.
- the requirements of Commission Regulation EU 2020/878

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

The product is classified, coded and labeled in accordance with EU Regulation on Hazardous Materials.

15.2 Chemical Safety Assessment

This product has not been made a chemical safety assessment.

16. OTHER INFORMATION

Text of H code(s) and R-phrases mentioned in Section 3

Acute Tox. 3, Acute Toxicity, Orale (Category 2);
Skin Irrit. 2, Skin Irritation (Category 2);
Eye Irrit. 2, Eye Irritation (Category 2);
Muta. 2, Germ Cell Mutagenicity (Category 2)
Repr. 1B, Reproductive toxicity (Category 1B);
Aquatic Chronic 2 Chronic Toxicity in the aquatic environment (Category 2)
H300 Fatal if swallowed
H301 Toxic if swallowed
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H341 Suspected of causing genetic defects
H360d May damage the unborn child
H411 Toxic to aquatic life with long lasting effects

Abbreviations and acronyms

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure

Training advice

The product must be used by qualified personnel. It is recommended to provide basic training with regard to safety and health at work to ensure proper handling of the product.

Further information

The information in this document is based on the present state of our knowledge. The user must ensure the accuracy and completeness of such information in relation to the specific use intended.

Liofilchem® shall not be held liable for any damage resulting from handling or from contact with the above product. See www.liofilchem.com. for additional terms and conditions of sale.

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