

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

Version 6.8 Revision Date 15.07.2022 Print Date 20.09.2023

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1 Product identifiers

Product name : Listeria agar (base) acc. OTTAVIANI and

AGOSTI acc. ISO 11290 Chromocult®

Product Number : 1.00427 Catalogue No. : 100427 Brand : Millipore

REACH No. : This product is a mixture. REACH Registration Number see

section 3.

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

Identified uses : Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Company : Merck Life Science spol. s r. o.

Na Hřebenech II 1718/10 CZ-140 00 PRAGUE

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Telephone : +420 246 003-251

E-mail address : TechnicalService@merckgroup.com

1.4 Emergency telephone

Emergency Phone # : +420 228880039(CHEMTREC)

+420 224919293/224915402

(Toxikologické informační středisko)

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Skin sensitization (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Millipore- 1.00427 Page 1 of 12



Signal Word Warning

Hazard statement(s)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

Precautionary statement(s)

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the

workplace.

P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

Supplemental Hazard

Statements

none

# Reduced Labeling (<= 125 ml)

Pictogram

(!)

Signal Word Warning

Hazard statement(s)

H317 May cause an allergic skin reaction.

Precautionary statement(s)

P261 Avoid breathing dust.

P272 Contaminated work clothing should not be allowed out of the

workplace.

P302 + P352 IF ON SKIN: Wash with plenty of water.

Supplemental Hazard

Statements

none

# 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.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Component		Classification	Concentration
Lithium chloride			
CAS-No.	7447-41-8	Acute Tox. 4; Skin Irrit. 2;	>= 10 - < 20
EC-No.	231-212-3	Eye Irrit. 2; H302, H315,	%
Registration		H319	
number	01-2119560574-35-		
	XXXX		

Millipore- 1.00427 Page 2 of 12



Pyruvic acid sodium salt				
CAS-No.	113-24-6	Eye Irrit. 2; Skin Sens.	>= 1 - < 10	
EC-No. Registration	204-024-4	1B; H319, H317	%	
number	01-2120767047-50- XXXX			

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

# Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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

Carbon oxides

Nitrogen oxides (NOx)

Oxides of phosphorus

Hydrogen chloride gas

Sodium oxides

Lithium oxides

Combustible.

Fire may cause evolution of:

Millipore- 1.00427 Page 3 of 12



Hydrogen chloride gas

Development of hazardous combustion gases or vapours possible in the event of fire.

# 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

#### 6.2 Environmental precautions

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

# **6.4** Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

### **Storage conditions**

Protected from light. Tightly closed. Dry.

Recommended storage temperature see product label.

# Storage class

Storage class (TRGS 510): 11: Combustible Solids

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Millipore- 1.00427 Page 4 of 12



# **SECTION 8: Exposure controls/personal protection**

# **Control parameters**

**Ingredients with workplace control parameters** 

#### 8.2 **Exposure controls**

# Personal protective equipment

# **Eve/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: > 480 min Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de). Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: > 480 min Material tested: KCL 741 Dermatril® L

# **Body Protection**

protective clothing

# **Respiratory protection**

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P2

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Page 5 of 12 Millipore- 1.00427



# Control of environmental exposure

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

solid a) Physical state b) Color beige

c) Odor peptone-like

d) Melting No data available point/freezing point

e) Initial boiling point and boiling range

No data available

Flammability (solid, No data available f) gas)

Upper/lower flammability or explosive limits

No data available

h) Flash point No data available No data available Autoignition temperature

Decomposition j) temperature

No data available

7,0 - 7,4 at 70 g/l at 25 °C k) рΗ

Viscosity, kinematic: No data available I) Viscosity

Viscosity, dynamic: No data available

70 g/l at 100 °C m) Water solubility n) Partition coefficient: No data available n-octanol/water

o) Vapor pressure No data available No data available p) Density Relative density No data available q) Relative vapor No data available

density

r) Particle No data available characteristics

Explosive properties Not classified as explosive.

Oxidizing properties

#### Other safety information 9.2

No data available

Millipore- 1.00427



Page 6 of 12

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

# 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

# 10.3 Possibility of hazardous reactions

Exothermic reaction with:

Alkali metals

halogen-halogen compounds

Violent reactions possible with:

Strong acids

#### 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

No data available

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Mixture**

# **Acute toxicity**

Acute toxicity estimate Oral - > 2.000 mg/kg

(Calculation method)

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and

gastrointestinal tract.

Symptoms: Possible symptoms:, mucosal irritations

Dermal: No data available

**Skin corrosion/irritation**Mixture causes skin irritation.

# Serious eye damage/eye irritation

Mixture causes serious eye irritation.

# Respiratory or skin sensitization

Mixture may cause an allergic skin reaction.

#### Germ cell mutagenicity

No data available

# Carcinogenicity

No data available

# Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

Millipore- 1.00427 Page 7 of 12

A

No data available

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

#### 11.2 Additional Information

# **Endocrine disrupting properties**

#### **Product:**

Assessment The substance/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.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

# **Components**

#### Lithium chloride

# **Acute toxicity**

LD50 Oral - Rat - male - 526 mg/kg

Remarks: (ECHA)

LC50 Inhalation - Rat - male and female - 4 h - > 5,57 mg/l - dust/mist

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

# Skin corrosion/irritation

Skin - Rabbit

Result: Severe skin irritation - 24 h

Remarks: (RTECS)

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Eye irritation

(OECD Test Guideline 405)

# Respiratory or skin sensitization

Buehler Test - Guinea pig Result: Not a skin sensitizer. (OECD Test Guideline 406)

### Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Result: negative

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Lithium hydroxide

Millipore- 1.00427 Page 8 of 12



Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Result: negative

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Lithium hydroxide

monohydrate

# Carcinogenicity

No data available

### Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

# Pyruvic acid sodium salt

# **Acute toxicity**

Oral: No data available Inhalation: No data available Dermal: No data available

# Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE)

Result: No skin irritation - 42 min

(OECD Test Guideline 439)

# Serious eye damage/eye irritation

Eyes - In vitro study

Result: Causes serious eye irritation. - 6 h

(OECD Test Guideline 492)

# Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: positive

(OECD Test Guideline 429)

# Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Result: negative **Carcinogenicity** 

No data available

#### Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

No data available

Millipore- 1.00427 Page 9 of 12



# Specific target organ toxicity - repeated exposure

# **Aspiration hazard**

No data available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

#### **Mixture**

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 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.

# 12.6 Endocrine disrupting properties

# **Product:**

Assessment : The substance/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

### **Components**

### Lithium chloride

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 158

mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia

static test EC50 - Daphnia magna (Water flea) - 249 mg/l - 48

and other aquatic invertebrates

(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - >

400 mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria static test EC50 - activated sludge - 320,05 mg/l - 3 h

(OECD Test Guideline 209)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances:

Lithium hydroxide

Millipore- 1.00427 Page 10 of 12



# Pyruvic acid sodium salt

No data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

### **Product**

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

# **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID: - IMDG: - IATA: -

# 14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

# 14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

# 14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

### 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

# 14.6 Special precautions for user

# **Further information**

Not classified as dangerous in the meaning of transport regulations.

#### **SECTION 15: Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

# 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

# **SECTION 16: Other information**

# Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

Millipore- 1.00427 Page 11 of 12

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H315 Causes skin irritation. H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Millipore- 1.00427 Page 12 of 12



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