

## ENGLISH

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

#### 1.1 Product identifiers

Product name: SPS Agar  
Product Number: 610148 - 620148

#### 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@liofilchem.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]

This product does not meet the criteria for classification in any hazard class in accordance to Regulation (EC) No. 1272/2008. concerning the classification, labelling and packaging of substances and mixtures.

#### 2.2 Label elements

The product does not need to be labeled in accordance with EC directives or respective 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.

### 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
<b>Iron(III) citrate tribasic monohydrate</b>					
2338-05-8	219-045-4	-	-	1,2 %	Eye Irrit. 2, H319
<b>Sulfadiazine sodium salt</b>					
547-32-0	208-919-0	-	-	0,3 %	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
<b>Sodium thioglycolate</b>					
367-51-1	367-51-1	367-51-1	367-51-1	367-51-1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319

#### 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 personal protective equipment. Ensure adequate ventilation.

### 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 Methods and material for containment and cleaning up

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 skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.

Do not eat, drink or smoke in work areas, wash hands after use; and remove contaminated clothing and protective equipment before entering areas where you eat.

### 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

- **Sodium thioglycolate (CAS No. 367-51-1)**

#### DNEL

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 0.174 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 19.3 µg/kg bw/day

Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 0.1 mg/kg bw/day

Limit value type : DNEL worker (local)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0.004 mg/cm<sup>2</sup>

Limit value type : DNEL worker (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 0.987 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0.163 mg/kg bw/day

## **PNEC**

Limit value type : PNEC (Aquatic, freshwater)  
Exposure route : Water (Including sewage plant)  
Exposure time : Short-term  
Limit value : 0.011 mg/l

Limit value type : PNEC (Aquatic, intermittent release)  
Exposure route : Water (Including sewage plant)  
Exposure time : Short-term  
Limit value : 0.051 mg/l

Limit value type : PNEC (Aquatic, marine water)  
Exposure route : Water (Including sewage plant)  
Exposure time : Short-term  
Limit value : 0.001 mg/l

Limit value type : PNEC (Sediment, freshwater)  
Exposure route : Water (Including sewage plant)  
Exposure time : Short-term  
Limit value : 0.039 mg/kg dw

Limit value type : PNEC (Sediment, marine water)  
Exposure route : Water (Including sewage plant)  
Exposure time : Short-term  
Limit value : 0.004 mg/kg dw

Limit value type : PNEC (Soil)  
Exposure route : Soil  
Exposure time : Short-term  
Limit value : 0.002 mg/kg soil dw

Limit value type : STP  
Exposure route : Water (Including sewage plant)  
Exposure time : Short-term  
Limit value : 10 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 a 41.3 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**

Not applicable

**Viscosity**

No data available

**Explosive properties**

No data available

**Oxidizing properties**

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:**

- **Sulfaziadine sodium salt (CAS No. 547-32-0)**  
LD50 Oral - Mouse - > 1700 mg/kg
- **Sodium thioglycolate (CAS No. 367-51-1)**  
LD50 Oral - Rat - > 50 mg/kg  
LD50 Dermic - Rat - > 1.000 mg/kg  
LC50 Inhalation - Rat - > 2729 mg/l

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

**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

**Additional information:** RTECS: no data available

**11.2 Information on other hazards:** no data available

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

- Sodium thioglycolate (CAS No. 367-51-1)**  
LC50 - Oncorhynchus mykiss (Rainbow trout) - Acute (short-term) fish toxicity → <100 mg/L 96 hours  
EC50 - Daphnia magna (Big water flea) - Acute (short-term) toxicity to crustacea → 38 mg/l 48 hours  
ErC50 - Desmodesmus subspicatus - Acute (short-term) toxicity to algae and cyanobacteria → 100 mg/l 72 hours  
EC50 - activated sludge - Toxicity to microorganisms → 820 mg/l 0.5 hours

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

- Sodium thioglycolate (CAS No. 367-51-1)**  
Log KOW → -2.99

### 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: - 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: 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) mentioned in Section 3

Met. Corr. 1; Corrosive to metals (Category 1)  
Acute Tox. 3; Acute Toxicity (Category 3)  
Acute Tox. 4; Acute Toxicity (Category 4)  
Skin Sens. 1; Skin sensitization (Category 1)  
Skin Irrit. 2; Skin irritation (Category 2)  
Eye Irrit. 2; Eye irritation (Category 2)  
Aquatic Chronic 2; Long-term (chronic) aquatic hazard (Category 2)  
H290 May be corrosive to metals  
H301 Toxic if swallowed  
H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation.  
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.

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Previous date: 01.06.2015

Revision date: 03.05.2024

Revision Number: rev. 5