

## ENGLISH

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

#### 1.1 Product identifiers

Product name: Selenite Cystine Broth

Product Number: 24510

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

Identified uses relevant: Professional uses, Industrial uses, scientific research and development

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Liofilchem®

Address: Via Scozia, zona industriale, 64026 - Roseto degli Abruzzi (TE)

Telephone number: 085/8930745

Fax number: 085/8930330

E-mail address: liofilchem@liofilchem.net

#### 1.4 Emergency telephone number

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

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Acute Tox. 4, Acute toxicity, Oral (Category 4); H302

#### 2.2 Label elements

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

#### Pictogram



#### Signal word

Warning

#### Hazard statement(s)

H302 Harmful if swallowed.

#### Precautionary statement(s)

P270 Do no eat, drink or smoke when using this product.

**Supplemental Hazard Statements** none

#### 2.3 Other hazards - none

### 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>Sodium Selenite</b>					
10102-18-8	233-267-9	034-003-00-3	-	0.4 %	Acute Tox. 2; Acute Tox. 3; Skin. Sens. 1; Aquatic Chronic 2; H300, H317, H331, H411, EUH031

#### Additional Information:

For the full text of H codes and R phrases mentioned in this section, see section 16

### 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.

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eye contact:** As a precaution flush eyes with water. In case of persistent irritation consult a physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist 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

### **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**

no data available.

#### **5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### **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 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.

### **7. HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

Avoid contact with eyes and skin. 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.

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 Control parameters**

##### **Components with workplace control parameters**

Contains no substances with occupational exposure limit value.

#### **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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Form Liquid  
Color Light Amber

#### Odour

No data available

#### Odour Threshold

No data available

#### pH

7.0 ± 0.2 at 25 °C

#### Melting point/ freezing point

No data available

#### Initial boiling point and boiling range

No data available

#### Flash point

No data available

#### Evaporation rate

No data available

#### Flammability (solid, gas)

not applicable

#### Upper / lower flammability or explosive limits

No data available

#### Vapour pressure

No data available

#### Vapour density

No data available

#### Relative density

No data available

#### Water solubility

soluble

#### Partition coefficient: n-octanol/water

No data available

#### Autoignition temperature

No data available

#### Decomposition temperature

No data available

#### Viscosity

No data available

#### Explosive properties

No data available

#### Oxidizing properties

No data available

### 9.2 Other safety information

no data available

## 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

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

No decomposition when used for the intended uses.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity:** 300 mg/kg < STAmix (Oral) < 2000 mg/kg

**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:** This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. (Sodium selenite)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium selenite)

**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

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Sodium Selenite effects are: Toxicity to fish LC50-Oncorhynchus mykiss (rainbow trout) - 2,75 mg/l - 96,0 h  
LC50 - Daphnia magna (Water flea) - 0,25 mg/l - 48 h

### 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 Other adverse effects

no data available

## 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.

## 14. INFORMAZIONI SUL TRASPORTO

### 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.

### 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. 2 Acute toxicity, Oral (Category 2)  
Acute Tox. 3 Acute toxicity, Inhalation (Category 3)  
Skin. Sens. 1 Skin sensitisation (Category 1)  
Aquatic Chronic 2 Chronic aquatic toxicity (Category 2)  
H300 Fatal if swallowed.  
H317 May cause an allergic skin reaction.  
H331 Toxic if inhaled.  
H411 Toxic to aquatic life with long lasting effects.  
EUH031 Contact with acids liberates toxic gas ..

### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
CLP: Regulation concerning the classification, labelling and packaging of substances and mixtures, Regulation (EC) No. 1272/2008.  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
IATA: International Air Transport Association  
IMDG: International Maritime Code for Dangerous Goods  
CL50: Middle lethal concentration of individuals in essay  
DL50: The median lethal dose that causes death in 50% of individuals in essay  
PBT: Persistent, bioaccumulative and toxic substance  
REACH: Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), Regulation (EC) No. 1907/2006  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
vPvB: Very persistent and very bioaccumulative substance

### 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

This sheet replaces any previous edition.

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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