

ENGLISH

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

1.1 Product identifiers

Product name: Fluid Thioglycollate Medium
Product Number: 610050-620050-6100505

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]

Skin Sens.1 , Skin sensitization (Category 1); H317

2.2 Label elements

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

Pictogram



Signal word

Warning

Hazard statement(s)

H317 May cause an allergic skin reaction.

Precautionary statement(s)

P264 Wash thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

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:

Hazardous substances

CAS n°	EC n°	Index n°	Registration number REACH	Concentration	Classification according Regulation (EC) No 1272/2008
Sodium metabisulphite					
367-51-1	206-696-4	-	01-2119968564-24-XXX	1.7 %	Met. Corr. 1; Acute Tox. 3; Acute Tox. 4; Skin Sens. 1; H290, H301, H312, H317

Additional Information:

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

- **DNEL/DMEL**

- Sodium thioglycolate ; CAS No. : 367-51-1

Limit value type : DNEL Consumer (systemic)

- Exposure route : Oral
 - Exposure frequency : Long-term
 - Limit value : 0.174 mg/m³
 - Exposure route : Dermal
 - Exposure frequency : Long-term
 - Limit value : 19.3 µg/kg bw/day

- 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/cm2

Limit value type : DNEL worker (systemic)

- Exposure route : Oral
- Exposure frequency : Long-term
- Limit value : 0.987 mg/m3
- Exposure route : Dermal
- Exposure frequency : Long-term
- Limit value : 0.163 mg/kg bw/day

• PNEC

- Sodium thioglycolate ; CAS No. : 367-51-1

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/

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 Light Beige

Odour

No data available

pH

6.1 ± 0.2 at 29.8 g/l at 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:

- **Acute oral toxicity**
Parameter : LD50 (Sodium thioglycolate ; CAS No. : 367-51-1)
Exposure route : Oral
Species : Rat
Effective dose : 50 MG/KG BW
- **Acute dermal toxicity**
Parameter : LD50 (Sodium thioglycolate ; CAS No. : 367-51-1)
Exposure route : Dermal
Species : Rat
Effective dose : 1000 MG/KG BW
- **Acute inhalation toxicity**
Parameter : LC50 (Sodium thioglycolate ; CAS No. : 367-51-1)
Exposure route : Inhalation (dust/mist)
Species : Rat
Effective dose : > 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

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

- **Aquatic toxicity**
 - Acute (short-term) fish toxicity**
Parameter : LC50 (Sodium thioglycolate ; CAS No. : 367-51-1)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 100 mg/l
Exposure time : 96 hour(s)
 - Acute (short-term) toxicity to crustacea**
Parameter : EC50 (Sodium thioglycolate ; CAS No. : 367-51-1)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : 38 mg/l
Exposure time : 48 hour(s)
 - Acute (short-term) toxicity to algae and cyanobacteria**
Parameter : ErC50 (Sodium thioglycolate ; CAS No. : 367-51-1)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria
Effective dose : > 100 mg/l
Exposure time : 72 hour(s)
 - Toxicity to microorganisms**
Parameter : EC50 (Sodium thioglycolate ; CAS No. : 367-51-1)
Species: Activated sludge
Evaluation parameter: Toxicity to microorganisms
Effective dose: 820 mg/l
Exposure time: 0.5 hour(s)

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/RIP: - 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) and R-phrases(s) mentioned in Section 3

- Met. Corr. 1; Corrosive to metals: Category 1
- Acute Tox. 3; - Acute toxicity (oral): Category 3
- Acute Tox. 4; Acute toxicity (dermal): Category 4
- Skin Sens.1; Skin sensitisation : Category 1
- H290 May be corrosive to metals
- H301 Toxic if swallowed
- H312 Harmful in contact with skin
- H317 May cause an allergic skin reaction

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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