

## ENGLISH

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

#### 1.1 Product identifiers

Product name: Muller Kauffmann Broth  
 Product Number: 402030

#### 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]

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>Iodine</b>					
7553-56-2	231-442-4	053-001-00-3	01-2119485285-30-XXXX	0,4 %	Acute Tox.4 H302 Acute Tox. 4 H312 Acute Tox. 4 H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 STOT RE 1 H372 Aquatic Acute 1 H400

#### 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. The product is not dangerous.

**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 water as a precaution

**In case of eye contact:** Flush eyes with water as a precaution

**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 as precaution. 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

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

- **Iodine (CAS 7553-56-2)**

Long-term worker DNEL – dermal (systemic effects - acute) – 0.01 mg/kg

Long-term worker DNEL – dermal (systemic effects - chronic) – 0.01 mg/kg

Long-term worker DNEL – inhalation (systemic effects - acute)– 1 mg/m<sup>3</sup>

Long-term worker DNEL – inhalation (systemic effects - chronic)– 0.07 mg/m<sup>3</sup>

PNEC:

- Aquatic compartment – freshwater 0.01 mg/L
- Aquatic compartment – marine water 0.06 mg/L
- Aquatic compartment – sediment in freshwater 3.99 mg/kg
- Aquatic compartment – sediment in marine water 20.22 mg/kg
- Terrestrial compartment – soil 5.95 mg/kg
- Sewage treatment plant 11 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 Liquid  
 Color Pale green

**Odour**

No data available

**pH**

7.2 ± 0.2 – 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:**

- **Iodine (CAS 7553-56-2)**  
 LD50 Oral - Rat - 315 mg/kg  
 LD50 Dermal – Rabbit – 1425 mg/kg  
 LC50/4 h Inhalative 1.5 mg/l (ATE)

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

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

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



## 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

Acute Tox.4 Acute Toxicity (Category 4)

Skin Irrit. 2 Skin Irritation (Category 2)

Eye Irrit. 2 Eye Irritation (Category 2)

STOT SE 3 Specific target organ toxicity (single exposure) – Category 3

STOT RE 1 Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1 Hazardous to the aquatic environment - acute aquatic hazard – Category 1

H302 Harmful if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H372 Causes damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

### 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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