

---

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

### **1.1. Product identifier**

LiSoClean MF (section 850) Moss and Fungi cleaner

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

#### **Use of the substance/mixture**

Moss and fungi cleaner

#### **Uses advised against**

-

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

Lisochem srl

Rue de Le Mesnil 34

5670 Viroinval Belgium

Telephone +32 60 490 190

Emergency telephone: +49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)

Responsible for the safety data sheet: sds@gbk-ingelheim.de

---

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

Indications of danger: Xi - Irritant

R phrases:

Irritating to eyes and skin.

#### **Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard categories:

Skin corrosion/irritation: 1B

Serious eye damage/eye irritation: 1

Acute toxicity: 4

Aquatic Acute: 1

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

### **2.2. Label elements**

**Pictograms:** GHS09-GHS05-GHS07



**Signal word:** Danger

**Hazard statements**

- H314 Causes severe skin burns and eye damage.  
 H302 Harmful if swallowed.  
 H400 Very toxic to aquatic life.

**Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P260 Do not breathe mist/vapours/fume/spray.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin water/shower.  
 P405 Store locked up.  
 P501 Dispose of contents/container to an approved waste disposal plant.

**2.3. Other hazards**

No data available.

**SECTION 3: Composition/information on ingredients****3.1. Mixtures****Chemical characterization**

Aqueous preparation of the following substances with non-hazardous admixtures

**Hazardous components**

EC No.	Chemical Name	Quantity
CAS-No.	Classification according to Directive 67/548/EEC	
Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No.		
270-325-2	Quaternary ammonium compounds	
68424-85-1		
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1; H302, H312, H314, H400	

Full text of R-, H- and EUH-phrases: see section 16.

**SECTION 4: First aid measures****4.1. Description of the first aid measures****General information**

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

No specific precautions required

**Inhalation**

Take affected person into fresh air.

Wash mouth and nasal passages with water.

If symptoms develop, seek medical attention.

**Skin contact**

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses.

---

Seek medical treatment by eye specialist.

**Ingestion**

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.

Call a physician immediately.

**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**

Treat symptoms.

---

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

**Extinguishing media which must not be used for safety reasons**

Full water jet.

**5.2. Special hazards arising from the substance or mixture**

Fire may produce:

Hydrocarbons, Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

Irritant/corrosive, flammable as well as toxic distillation gases/vapours.

**5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.

**Additional information**

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

---

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing.

Use personal protective clothing.

High risk of slipping due to leakage/spillage of product.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.

**6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

**6.4. Reference to other sections**

Information for disposal see section 13.

---

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Avoid contact with the skin and the eyes.

Ensure adequate ventilation.

**Advice on protection against fire and explosion**

---

No special protective measures against fire required.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Keep away from heat.

Keep from freezing.

#### **Advice on storage compatibility**

Incompatible with strong acids and oxidizing agents.

#### **Additional information on storage conditions**

Keep away from food, drink and animal feedings stuffs.

Storage class (D): 12

### **7.3. Specific and uses**

No data available.

---

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

### **8.1. Control parameters**

#### **Additional advice on limit values**

No data available.

### **8.2. Exposure controls**

#### **Protective and hygiene measures**

Wash hands before breaks and at the end of workday.

Take off immediately all contaminated clothing.

#### **Respiratory protection**

No personal respiratory protective equipment normally required.

#### **Hand protection**

Neoprene, butyl or nitrile gloves

Requirements may vary depending on the use. Hence it is necessary to observe in addition the recommendations of the manufacturer of the protective gloves.

#### **Eye protection**

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

#### **Skin protection**

Long sleeved clothing (EN 368).

---

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

### **9.1. Information on basic physical and chemical properties**

Physical state:	Liquide
Colour:	Transparent
Odour:	Characteristic

pH-Value (at 20 °C):	Approx. 6 - 9	<b>Test method</b>
----------------------	---------------	--------------------

#### **Phase changes**

Melting point:	Approx. 0 °C
Boiling point and boiling range:	Approx. 100 °C
Flash point (°C):	n.a.
Lower explosive limit:	n.a.
Upper explosive limit:	n.a.
Ignition temperature (°C):	n.a.

Density (at 20 °C): > 1.00 g/cm<sup>3</sup>

Solubility in water:  
(at 20 °C) Soluble

### **9.2. Other information**

No data available.

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No data available.

### **10.2. Chemical stability**

No data available.

### **10.3. Possibility of hazardous reactions**

No data available.

### **10.4. Conditions to avoid**

Strong exothermic reaction with acids.

### **10.5. Incompatible materials**

Strong acids and oxidizing agents

### **10.6. Hazardous decomposition products**

Fire may produce:

Hydrocarbons, Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

### **Further information**

No decomposition if stored and applied as directed.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

Substance	Species	Test	Route of exposure	Result
68424-85-1	Rat	LD50	Oral	795 mg/Kg

#### **Skin corrosion/irritation**

Causes severe skin burns and eye damage.

#### **Serious eye damage/irritation**

Causes serious eye damage

#### **Respiratory or skin sensitization**

No data available

#### **Germ cell mutagenicity**

No adverse effect observed.

#### **Carcinogenicity**

No adverse effect observed.

#### **STOT-single exposure**

No data available.

#### **STOT-repeated exposure**

No data available

#### **Aspiration hazard**

No adverse effect observed.

#### **Long term effects**

Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are inhaled, it can result in damage to lungs, irritation and burns in the respiratory organs as well as coughing.

Corrosive substances cause irreversible damage to eyes and acid burns to skin.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled.

Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

**Further information**

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

**SECTION 12: Ecological information****12.1. Toxicity**

Substance	Species	Test	Test duration	Result
68424-85-1	Daphnia	EC50	48 h	0,016 mg/l
68424-85-1	Fish	LC50	96 h	0,85 mg/l
68424-85-1	Algae	NOEC	21 d	0,025 mg/l

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
68424-85-1	Yes	No data available	No data available

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BFC
68424-85-1	No	No data available	No data available

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

This product contains ecotoxic substances which can have damaging effects on water-organisms.

**Further information**

Do not flush into surface water or sanitary sewer system.

A pH-change becomes possible in water.

Ecological data are not available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Can be landfilled after chemical and physical treatment, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

**Waste disposal number of waste from residues/unused products**

080111

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

---

## **SECTION 14: Transport information**

**Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO); Inland waterways transport (ADN)**

This product is covered by the conventions on dangerous goods.

### **ADR/RID**

**14.1. UN number:** 1760

**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S.

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** II

### **IMDG**

**UN number:** 1760

**Proper Shipping Name:** CORROSIVE LIQUID, N.O.S

**Class:** 8

**Packing group:** II

**EmS:** F-A, S-B

**Marine pollutant:** yes

**Hazardous constituent:** Benzalchoniumchloride

### **14.5. Environmental hazards**

This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability.

### **14.6. Special precautions for user**

-

### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No data available.

---

## **SECTION 15: Regulatory information**

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

#### **EU regulatory information**

1999/13/CE (VOC): 0 %

#### **National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

---

## **SECTION 16: Other information**

### **Changes**

Changes in chapter : 2, 3

### **Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

## Safety Data Sheet according to Regulation (EC) No 1907/2006

Lisochem SRL

Date of revision: 20.01.2015

Revision no.: 1,1

**LiSoClean MF (section 850) Moss and Fungi cleaner**

11020-0008



---

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC = Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

VOC = Volatile organic compound

STOT SE = Specific target organ toxicity single exposure

STOT RE = Specific target organ toxicity repeated exposure

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

bw = body weight

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

### Relevant R-phrases (Number and full text)

35 Causes severe burns.

41 Risk of serious damage to eyes.

63 Possible risk of harm to the unborn child.

### Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

### Further information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

---

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*