Lisochem SRL

Date of revision: 20.01.2015 Revision no.: 1,1

LiSoClean MF (section 850) Moss and Fungi cleaner

11020-0008



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

Lisochem SRL

Date of revision: 20.01.2015 Revision no.: 1,1



11020-0008



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	< 5%
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

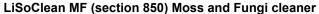
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses.

Print date: 21.01.2015 GB - EN Page 2 of 8

Lisochem SRL

Date of revision: 20.01.2015 Revision no.: 1,1



11020-0008

Cook modical treatment by ove an existing

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 (CO2), 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 (CO2) and nitrogen oxides (NOx).

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 mesasures

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.

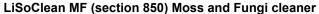
Ensure adequate ventilation.

Advice on protection against fire and explosion

Print date: 21.01.2015 GB - EN Page 3 of 8

Lisochem SRL

Date of revision: 20.01.2015 Revision no.: 1,1



11020-0008



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

Test method

pH-Value (at 20 °C): Approx. 6 - 9

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.

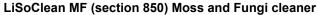
Upper explosive limit:

Ignition temperature (°C):

Print date: 21.01.2015 GB - EN Page 4 of 8

Lisochem SRL

Date of revision: 20.01.2015 Revision no.: 1,1



11020-0008

> 1.00 g/cm³

Density (at 20 °C): 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 (CO2) and nitrogen oxides (NOx).

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 in haled, it can result in damage to lungs, irritation and burns in the respiratory organs as well as coughing.

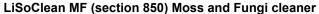
Corrosive substances cause irreversible damage to eyes and acid burns to skin.

Print date: 21.01.2015 GB - EN Page 5 of 8



Lisochem SRL

Date of revision: 20.01.2015 Revision no.: 1,1



11020-0008



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. Persistance and degradability

Substance	Biodegradibilty	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.

Print date: 21.01.2015 GB - EN Page 6 of 8

Lisochem SRL

Date of revision: 20.01.2015 Revision no.: 1,1

LiSoClean MF (section 850) Moss and Fungi cleaner

11020-0008



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

Print date: 21.01.2015 GB - EN Page 7 of 8

Lisochem SRL

Date of revision: 20.01.2015 Revision no.: 1,1



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.

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.)

Print date: 21.01.2015 GB - EN Page 8 of 8