



SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

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

1.1. Product identifier:

Linseed oil, for outdoor use
Krystalfernis, for outdoor use

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

Linseed oil for outdoor use on buildings etc. Applied with brush, roller etc.

1.3. Details of the supplier of the safety data sheet:

Linolie & Pigment

Øsbygade 46 Phone: 7575 2382

DK-6100 Haderslev

Responsible person for the safety data sheet (e-mail): info@linolie.dk

1.4. Emergency telephone number:

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

National Poisons Information Centre (Ireland): +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Sensitizing and irritant liquid. Hazardous to the aquatic environment

CLP (1272/2008): Skin Sens. 1;H317 Skin Irrit. 2;H315 Eye Irrit. 2;H319 Aquatic Chronic 2;H411

2.2. Label elements:



WARNING

Contain: 4,5-Dichloro-2-octyl-2H-isothiazol-3-one

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P501: Dispose of contents/container in accordance with applicable regulations.

2.2. Other hazards:

Rags soaked with the product may cause spontaneous combustion.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100 or Regulation 2018/605.



SECTION 3: Composition/information on ingredients

3.2. Mixtures: Linseed oil and fungicide

| % w/w | Substance name | CAS-no. | EC-no. | Index-no. | REACH reg.-no. | Classification | Note |
|-------|--|------------|-----------|--------------|----------------|---|------|
| < 0.2 | 4,5-Dichloro-2-octyl-2H-isothiazol-3-one | 64359-81-5 | 264-843-8 | 613-335-00-8 | - | Acute Tox 2;H330 Acute Tox 4;H302 Skin Sens.1A;H317 Skin Corr. 1;H314 Eye Dam. 1;H318 Aquatic Acute 1;H400 (M=100) Aquatic Chronic 1;H410 (M=100) | 1 |

1) SCL (Specific Concentration limits) for classification: Skin Irrit. 2;H315/Eye Irrit. 2;H319: 0,025% ≤ C < 3%; Skin Sens. 1A;H317: C ≥ 0,0015% (EU Harmonized). ATE (oral) = 567 mg/kg; ATE (inhalation) = 0,16 mg/l.

Wording of hazard statements - see section 16.

SECTION 4: First-aid measures

4.1. Description of first aid measures:

- Inhalation: Move the affected person to fresh air. Keep at rest. If symptoms persist: Seek medical advice.
- Skin contact: Remove all contaminated clothing. Wash skin with water and mild soap. In case of rash, wound, or other skin irritation: Seek medical advice.
- Eye contact: Flush with water or physiological salt water, holding eyelids open; remember to remove contact lenses, if any. If irritation persists: Seek medical advice.
- Ingestion: Rinse mouth and drink plenty of water. **Do not induce vomiting.** If vomiting occurs keep head down to avoid vomit in the lungs. Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed:

Skin sensitization and irritation with redness, itching, blisters and eczema.

4.3. Indication of any immediate medical attention and special treatment needed:

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Use carbon dioxide, dry chemical or foam.

5.2. Special hazards arising from the substance or mixture:

Do not inhale smoke fumes. In case of fire, the substance may form hazardous decomposition products: Primarily oxides of carbon.

5.3. Advice for firefighters:

Wear self-contained breathing apparatus when generation of smoke is vigorous.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use gloves of rubber when spill is wiped up – see section 8. Avoid further spreading. Ventilate area of spill.

6.2. Environmental precautions:

Do not empty into drains – see section 12. Inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up:

Take up with absorbent material (e.g. general-purpose binder) and place in marked container for disposal.

All contaminated rags, paper etc. may be subject to spontaneous combustion under certain conditions. Place all contaminated material in a metal container, which contains water, with a tight-fitting lid. Remove from premises immediately.

Clean with water. Dispose of in accordance with local regulations or burn under controlled conditions.

Further handling of spillage - see section 13.

6.4. Reference to other sections:

See references above.



SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Avoid contact with skin, eyes and clothing. Provide sufficient ventilation. Wash contaminated skin immediately with water and mild soap. Contaminated clothes or absorbent material is kept under water until disposal or cleaning. Moisturisers prevents drying of the skin and may be used with great advantage after work.

7.2. Conditions for safe storage, including any incompatibilities:

Store in a tightly closed original container of metal. Keep in a dry and well-ventilated place.

Store securely and out of reach of unauthorized personnel and separated from food, feed, drugs etc.

7.3. Specific end use(s):

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

Occupational exposure limits, UK (EH40/ed.2020): None

Occupational exposure limit values, Ireland (2021): None

DNEL/PNEC: No CSR.

8.2. Exposure controls:

Appropriate engineering controls: Provide sufficient ventilation.

Personal protective equipment:

Inhalation: Normally not required when applied with brush or roller.

Skin: Wear protective gloves of nitrile rubber (> 0.3 mm) (EN 374). It has not been possible to find data for breakthrough time. In case of spill on the glove, it is recommended to change it after use.

Eyes: Wear tight fitting safety goggles (EN 166) when there is risk of splashes.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

| | |
|--|---------------------------------|
| Physical state: | Liquid |
| Colour: | Clear colourless |
| Odour: | Linseed oil |
| Melting point/freezing point (°C): | Not determined |
| Boiling point or initial boiling point and boiling range (°C): | Not determined |
| Flammability (solid, gas): | Not relevant (liquid) |
| Lower and upper explosion limit (vol-%): | Not determined |
| Flash point (°C): | App. 220 (for pure linseed oil) |
| Auto-ignition temperature (°C): | Not relevant |
| Decomposition temperature (°C): | Not determined |
| pH: | Not determined |
| Kinematic viscosity: | Not determined |
| Solubility: | Insoluble in water |
| Partition coefficient n-octanol/water (log value): | Not determined |
| Vapour pressure: | Not determined |
| Density and/or relative density: | Not determined |
| Relative vapour density: | Not determined |
| Particle characteristics: | Not determined |
| 9.2. Other information: | None relevant |



SECTION 10: Stability and reactivity

10.1. Reactivity:

No available data.

10.2. Chemical stability:

Stable under normal conditions (see section 7).

10.3. Possibility of hazardous reactions:

Warning: Combustible materials such as rags, paper or cloths soaked with the product may cause spontaneous combustion

10.4. Conditions to avoid:

Avoid excessive heating.

10.5. Incompatible materials:

May react with oxidizing materials.

10.6. Hazardous decomposition products:

In case of extensive heating, the mixture may form hazardous decomposition product such as oxides of carbon, short chain fatty acids, polymers and acrolein.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Skin Irrit. 2;H315 Causes skin irritation.

Serious eye damage/irritation: Eye Irrit. 2;H319 Causes serious eye irritation.

Respiratory or skin sensitization: Skin Sens. 1;H317 May cause an allergic skin reaction.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

| Hazard class | Data | Test | Data source |
|-----------------------|--|--------------|-------------|
| Acute toxicity: | | | |
| Inhalation | LC ₅₀ (rat) = 0.26 mg/l/4h (4,5-Dichloro-2-octyl-2H-isothiazol-3-one) | OECD 403 | Supplier |
| Dermal | LD ₅₀ (rabbit) > 652 mg/kg (4,5-Dichloro-2-octyl-2H-isothiazol-3-one) | OECD 402 | Supplier |
| Oral | LD ₅₀ (rat) > 15 g/kg (Linseed oil) | No data | Supplier |
| | LD ₅₀ (rat) = 1636 mg/kg (4,5-Dichloro-2-octyl-2H-isothiazol-3-one) | OECD 401 | Supplier |
| Corrosion/irritation: | Moderate skin irritation, man (Linseed oil) | Draize | RTECS |
| | Corrosion, rabbit (4,5-Dichloro-2-octyl-2H-isothiazol-3-one) | OECD 404/405 | Supplier |
| Sensitization: | Skin sensitization, guinea pig (4,5-Dichloro-2-octyl-2H-isothiazol-3-one) | OECD 406 | Supplier |
| CMR: | No mutagenicity – negative result (Linseed oil) | No data | TOXNET |
| | No effect on fertility/offspring (Linseed oil) | No data | TOXNET |
| | No carcinogen effects in animals (Linseed oil) | No data | TOXNET |

Information on likely routes of exposure: Skin and ingestion.

Symptoms:

Inhalation: Slight irritation of the airways. Inhalation of larger amounts may induce discomfort.

Skin: Irritation with redness.

Eyes: May cause irritation with redness and pain.

Ingestion: May cause irritation of the gastrointestinal tract and discomfort, nausea and diarrhea.

Chronic effects: Frequent skin contact with 4,5-dichloro-2-octyl-2H-isothiazol-3-one may cause skin sensitisation with symptoms such as redness, itching, blisters and eczema.

11.2. Information on other hazards: None known.



SECTION 12: Ecological information

12.1. Toxicity:

| Aquatic | Data | Test (Media) | Data source |
|---------|---|---------------|-------------|
| Fish | LC ₅₀ (Fish, 96h) = 0.003 mg/l (4,5-Dichloro-2-octyl-2 <i>H</i> -isothiazol-3-one) | OECD 203 | Supplier |
| Daphnia | EC ₅₀ (Daphnia magna, 48h) = 0.0052 mg/l (4,5-Dichloro-2-octyl-2 <i>H</i> -isothiazol-3-one) | No data (FW) | Supplier |
| Algae | EC ₅₀ (Pseudokirchnerella subcapitata, 96h) = 0.077 mg/l (4,5-Dichloro-2-octyl-2 <i>H</i> -isothiazol-3-one) | OECD 201 (FW) | Supplier |

12.2. Persistence and degradability:

4,5-Dichloro-2-octyl-2*H*-isothiazol-3-one was degraded 0% at an OECD 301B test and is not considered rapidly degradable.

12.3. Bioaccumulative potential:

4,5-Dichloro-2-octyl-2*H*-isothiazol-3-one: Log K_{ow} = 3.59 (moderate bioaccumulative effect).

12.4. Mobility in soil:

No relevant available data.

12.5. Results of PBT and vPvB assessment:

No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

12.6. Endocrine disrupting properties:

None known.

12.7. Other adverse effects:

4,5-Dichloro-2-octyl-2*H*-isothiazol-3-one is considered an organic halogen compound (AOX).

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

The mixture is not considered as hazardous waste. Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

EWC-code:

08 01 11 (mixture itself) and 15 02 02 (Paper towel, inert material etc. contaminated with the mixture)

SECTION 14: Transport information

14.1. UN number or ID number: 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,5-Dichloro-2-octyl-2*H*-isothiazol-3-one)

14.3. Transport hazard class(es): 9

14.4. Packing group: III

14.5. Environmental hazards: Yes

14.6. Special precautions for user: None.

14.7. Maritime transport in bulk according to IMO instruments: Not relevant.

SECTION 15: Regulatory information

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

Must not be used by persons under 18 years of age.

Special labelling:

VOC subcategory: A/d

VOC limit value (g/l): 300

VOC content (g/l): < 5

Danish 1993-Code no.: 00-1

15.2. Chemical safety assessment:

No CSR.



SECTION 16: Other information

Hazard statements mentioned in section 3:

- H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H330: Fatal if inhaled.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Abbreviations:

- CMR = Carcinogenicity, mutagenicity and reproductive toxicity.
CSR = Chemical Safety Report
DNEL = Derived No-Effect Level
EC₅₀ = Effect Concentration 50%
FW = Fresh Water
LC₅₀ = Lethal Concentration 50%
LD₅₀ = Lethal Dose 50%
PBT = Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
vPvB = very Persistent, very Bioaccumulative

Literature:

- RTECS = Register of Toxic Effects of Chemical Substances.
Supplier's safety data sheet.
TOXNET = Toxicology Data Network via Toxline database.

Training advice:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Changes since the previous edition:

2, 8, 9, 11, 12, 14 & 16

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