



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

- 1.1 Product identifier**
Commercial Product Name
 ROSLAGIN MAHONKI
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Recommended use
 Wood treatment agent, made of boiled linseed oil, wood tar and solvent agent.
- 1.3 Details of the supplier of the safety data sheet**
Supplier
 Uulatuote Oy
- Street address**
 Yttiläntie 265
- Postcode and post office**
 32920 Kauvatsa
 Finland
- Telephone**
 +358 10 820 0020
- Telefax**
 +358 2-529 5011
- Business ID**
 FI02264544
- Email**
 uula@uula.fi
- 1.4 Emergency telephone number**
 United Kingdom of Great Britain and Northern Ireland:
 National Poisons Information Service
 + 8 448 920 111, 24 hrs
 Ireland: Dublin
 +353 1 809 2166 (public). 24hrs
 Malta:
 +356 2545 0000/ +356 2545 6504

SECTION 2. HAZARDS IDENTIFICATION

For the full text of the R-phrases mentioned in this Section, see Section 16

- 2.1 Classification of the substance or mixture**
 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
 Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
1272/2008 (CLP)
 EUH066
 EUH208
67/548/EEC - 1999/45/EC
 R66
- 2.2 Label elements**
1272/2008 (CLP)
 EUH066 Repeated exposure may cause skin dryness or cracking.
 EUH208 Contains 3-iodo-2-propynyl butyl carbamate, 4,5-dichloro-2-octyl-4-isothiazol-3-one. May produce an allergic reaction.
- 2.3 Other hazards**
 Toxic to aquatic life. Volatile. Inhalation of vapors may cause headache, dizziness and nausea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.2 Mixtures**
Hazardous components
- | CAS | EINECS | Chemical name of the substance | Concentration Classification |
|-----|--------|--------------------------------|------------------------------|
|-----|--------|--------------------------------|------------------------------|



-	918-481-9	Hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic <2% aromatics	30- 40 %	Xn; R65; R66; Asp. Tox. 1, H304; EUH066;
100-51-6	202-859-9	benzyl alcohol	0,45 - 0,68 %	Xn; R20/22; Acute Tox. 4, H332; Acute Tox. 4, H302
55406-53-6	259-627-5	3-iodo-2-propynyl butyl carbamate	0,14 - 0,17 %	N; R50; Xi; R37; R41; R43; Xn; R20/22 Acute Tox. 4, H302; Acute Tox. 4, H332; Aquatic Acute 1, H400; Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335
26530-20-1	247-761-7	2-Oktyyli-2H-isotiatsol-3-oni	0,0007 - 0,001%	T; R23/24; Xn; R22;C; R34;R43;N; R50-53; Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
64359-81-5	264-843-8	4,5-dichloro-2-octyl-4-isothiazol-3-one	0,28 - 0,45 %	Xn; R21/22; C; R34;Xi;R37;R43;N;R50 Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Corr. 1B, H314; STOT SE 3, H335; Skin Sens. 1, H317; Aquatic Acute 1, H400
13586-82-8	237-015-9	cobalt carboxylate	0,005 - 0,01%	N ; R51/53 R43 Xn ; R22 Xi ; R38 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

3.3 Other information

REACH Registration Number

EC 918-481-9: 01-2119457273-39-xxxx.

CAS 100-51-6 : 01-2119492630-38-xxxx

4,5-dichloro-2-octyl-4-isothiazol-3-one: M=100

Also contains linseed oil

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

If breathed in, move person into fresh air. Keep patient warm and at rest. Oxygen or artificial respiration if needed. Get medical attention immediately if symptoms occur.

Skin contact

Take off all contaminated clothing immediately. In case of contact, immediately flush skin with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact

Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Call a physician if irritation persists.

**Ingestion**

Do NOT induce vomiting. Rinse mouth with water. Drink plenty of water. If large quantities of this material are swallowed, call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

May cause sensitisation by skin contact. Harmful in contact with skin.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons

Water

5.2 Special hazards arising from the substance or mixture

Burning produces noxious and toxic fumes.

5.3 Advice for firefighters

Special protective equipment and precautions for fire-fighters In case of insufficient ventilation wear suitable respiratory equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment.

6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Dispose of oily cotton waste, rags by burning or watering before discarding in the trash because of linseed-oli self-ignition risk.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Use personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not get in eyes, on skin, or on clothing. Keep away from sources of ignition - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

7.3 Specific end use(s)

No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Threshold limits**

100-51-6	benzyl alcohol	10 ppm (8 h)	45 mg/m ³ (8 h)
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**Other information on limit values**

Hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic <2% aromatics:

8h: 500mg/m³, vapor 8h: 1200 mg/m³, 184ppm (ExxonMobil)

4,5-dichloro-2-n-octyl-4-isothiazolin-3-one:

TWA = 0.06 mg/m³

STEL = 0.1 mg/m³

2-octyl-2H-isothiazoli-3-one:

TWA = 0.2 mg/m³

STEL = 0.6 mg/m³

DNELs

No information available.

PNECs

No information available.

8.2**Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures**Respiratory protection**

Breathing apparatus needed only when aerosol or mist is formed. Recommended Filter type: A.

Hand protection

Protective gloves: Nitrile rubber

Eye/face protection

If splashes are likely to occur, wear: Safety glasses with side-shields

Skin protection

Wear suitable coveralls to prevent exposure to the skin.

Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1**Important Health Safety and Environmental Information**

Appearance	Paint-like, colored liquid
Odour	aliphatic
Odour threshold	no data available
pH	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	180 - 217°C (hydrocarbons)
Flash point	> 60°C (hydrocarbons)
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Explosive properties	
Lower explosion limit	0,6 % vol (hydrocarbons)
Upper explosion limit	7 % vol (hydrocarbons)
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Solubility(ies)	
Water solubility	no data available
Fat solubility (solvent - oil to be specified)	no data available
Partition coefficient: n-octanol/water	no data available



Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	Flow time: 80 s. flow cup ISO 2431 3 mm (> 20,5 mm ² /s (40° C)
Explosive properties	no data available
Oxidising properties	no data available
9.2 Other information	No information available.

SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
Stable at normal ambient temperature and pressure.
- 10.2 Chemical stability**
Stable under normal conditions.
- 10.3 Possibility of hazardous reactions**
No information available.
- 10.4 Conditions to avoid**
Extremes of temperature and direct sunlight. Keep away from flames and sparks.
- 10.5 Incompatible materials**
Strong oxidizing agents
- 10.6 Hazardous decomposition products**
Burning produces noxious and toxic fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- Acute toxicity**
No data is available on the product itself.
Hydrocarbons:
LD50/oral/rat => 5 000 mg/kg
LD50/dermal/rat / rabbit => 5 000 mg/kg
LC50/inhalation/4h/rat => 4951 mg/m³
1,2,4-trimethylbenzene:
LD50 / oral / rat => 3 400 mg/kg
LD50/dermal/rat / rabbit => 3 160 mg / kg
LC50/inhalation/4h/rat => 18 mg/l
4,5-dichloro-2-n-octyl-4-isothiazolin-3-one:
LD50 / oral / rat = 1 636 mg / kg of OECD Test Guideline 401
LD50/dermal/rat / rabbit => 652 mg / kg OECD Test Guideline 402
LC50/inhalation/4h/rat => 0.26 mg / l OECD Test Guideline 403
2-octyl-2H-isothiazolin-3-one:
LD50 / oral / rat = 318 mg / kg of OECD Test Guideline 401
LD50/dermal/rat / rabbit = 311 mg / kg OECD Test Guideline 402
LC50/inhalation/4h/rat = 0.58 mg / l OECD Test Guideline 403
- Irritation and corrosion**
May cause respiratory tract irritation. Prolonged or repeated contact may dry skin and cause irritation.
- Sensitisation**
Skin sensitisers : 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one (OECD Test Guideline 406 Causes sensitization), 3-iodo-2-propynyl butyl carbamate. May cause sensitisation by skin contact. May cause allergic skin reaction.
- Subacute, subchronic and prolonged toxicity**
No information available.

**STOT-single exposure**

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

Due to the viscosity, this product does not present an aspiration hazard.

Other information on acute toxicity

No information available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity**Aquatic toxicity**

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

Hydrocarbons:

LC50 / fish / 96h Oncorhynchus mykiss (rainbow trout) => 1000 mg / l

LC50 / algae / 48h Pseudokirchneriella subcapitata (green algae) => 1000 mg / l

LC50 / water flea / 48h Daphnia magna => 1000 mg / l

1,2,4-trimethylbenzene:

LC50 / fish / 96h Fathead minnow (Pimephales promelas) = 7.72 mg / l

EC50 / water flea / 48h Daphnia magna = 6.14 mg / l (OECD 202)

4,5-dichloro-2-n-octyl-4-isothiazolin-3-one:

LC50 / fish / 96h Oncorhynchus mykiss (rainbow trout) = 0.0027 mg / l

EC50 / water flea / 48h Daphnia magna = 0.0052 mg / l

EC50 / algae / 72h Pseudokirchneriella subcapitata (green algae) = 0.048 mg / L (OECD TG 201)

2-octyl-2H-isothiazolin-3-one:

LC50 / fish / 96h Oncorhynchus mykiss (rainbow trout) = 0.047 mg / l (OECD 203)

EC50 / water flea / 48h Daphnia magna = 0.32 mg / l (OECD 202)

Toxicity to other organisms

No information available.

12.2 Persistence and degradability**Biodegradation**

Hydrocarbons: 28d, 80% rapidly biodegradable (estimation). Very volatile.

1,2,4-trimethylbenzene: 4 - 18% (OECD 301C), not readily biodegradable

2-octyl-2H-isothiazolin-3-one: 25%, not readily biodegradable

Chemical degradation

No information available.

12.3 Bioaccumulative potential

1,2,4-trimethylbenzene: Bioconcentration factor (BCF): 33 - 275

12.4 Mobility in soil

Hydrocarbons: Highly volatile, is quickly absorbed into the air. Does not mix with the bottom and wastewater slurries.

1,2,4-trimethylbenzene: POW: 3.63

4,5-dichloro-2-n-octyl-4-isothiazolin-3-one: log Pow: 3.59 calculated

2-octyl-2H-isothiazolin-3-one: log Pow 2.47

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

Uncleaned empty packaging dry: Can be offered for metal recovery.

13.2 Waste from residues / unused products

Waste Classification e.g. 080111 - waste paint and varnish containing organic solvents or other dangerous substances. Classified as hazardous waste according to European Union regulations.

SECTION 14. TRANSPORT INFORMATION**14.1 UN number**

Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.

14.2 UN proper shipping name

-

14.3 Transport hazard class(es)

-

14.4 Packing group

-

14.5 Environmental hazards

-

14.6 Special precautions for users

No information available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

WEL substance: Avoid exceeding of the given occupational exposure limits (see section 8).

15.2 Chemical safety assessment

No information available.

SECTION 16. OTHER INFORMATION**16.1 Additions, Deletions, Revisions**

Version 1.0.

16.2 Key or legend to abbreviations and acronyms

- **CLP** - Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging
- **HTP** - time weighted average
- **DNEL** - No observed adverse effect level
- **PNEC** - Predicted No Effect Concentration
- **PBT** - persistent, bioaccumulating and toxic.
- **vPvB** - very persistent and very bioaccumulating.
- **LD50** - the dose at which half of the animals die
- **LC50** - the concentration at which half of the animals die
- **EC50** - half maximal effective concentration

16.3 Key literature references and sources for data

REGULATION (EC) No 1272/2008, Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.2. Material Safety Data Sheet: ROSLAGIN MAHONKI Print Date 1.7.2010. Eri raaka-ainevalmistajilta saadut tiedotteet ja analyysit.

16.4 Classification procedure

REGULATION (EC) No 1272/2008 Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP). REGULATION (EC) No 1272/2008, artikla 9(4).

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

R20/22 Harmful by inhalation and if swallowed.



R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R23/24	Toxic by inhalation and in contact with skin.
R34	Causes burns.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.
R66	Repeated exposure may cause skin dryness or cracking.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

16.6 Additional information available from:

Provide adequate information, instruction and training for operators. Refer to attached safety data sheets and/or instructions for use.