

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** Lithofin MN Flagstone-Sealant

Revision date : 23.05.2017  
Print date : 28.06.2017

Version (Revision) : 2.0.0 (1.0.0)  
Page : 1 / 12

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

**1.1 Product identifier**

Lithofin MN Flagstone-Sealant

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

**Relevant identified uses**

Mixture Sealer, contains: organic solvents

**1.3 Supplier (manufacturer/importer/only representative/downstream user/distributor)**

**Distributor :**

Casdron Enterprises Ltd.

**Street :**

Wood End, Prospect Road

**Postal code/city :**

GB- New Alresford, Hants SO 24 9QF

**Telephone :**

+44 1962 732126

**Telefax :**

+44 1962 735373

**Contact :**

Technical Department

E-mail: sales@lithofin.co.uk

Emergency telephone number:

0196 2732126

(Only available during office hours)

**Supplier :**

Lithofin AG

**Street :**

Heinrich-Otto-Str. 36

**Postal code/city :**

73240 Wendlingen

**Telephone :**

+49 (0)7024 9403-0

**Telefax :**

+49 (0)7024 9403-40

**Contact :**

Technical Department

E-mail: info@lithofin.de

Emergency telephone number:

+49 (0)7024 9403-0

(Only available during office hours)

**1.4 Emergency telephone number**

see section 1.3

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

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

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

**Additional information**

This mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**Remark**

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

**2.2 Label elements**

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

**Hazard pictograms**



**Trade name :** Lithofin MN Flagstone-Sealant

Revision date : 23.05.2017  
Print date : 28.06.2017

Version (Revision) : 2.0.0 (1.0.0)  
Page : 2 / 12

Flame (GHS02) · Environment (GHS09) · Exclamation mark (GHS07)

**Signal word**

Warning

**Hazard components for labelling**

Hydrocarbons, C9, aromatics ; CAS No. : (64742-95-6)

**Hazard statements**

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

**Special rules for supplemental label elements for certain mixtures**

EUH208 Contains MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; A MIXTURE OF: ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) ; ISOBUTYL METHACRYLATE. May produce an allergic reaction.

**2.3 Other hazards**

**Adverse physicochemical effects**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

**2.4 Additional information**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Hazardous ingredients**

Hydrocarbons, C9, aromatics ; REACH registration No. : 01-2119455851-35-xxxx ; EC No. : 918-668-5; CAS No. : (64742-95-6)

Weight fraction : ≥ 60 - < 65 %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

XYLENE ; REACH registration No. : 01-2119486136-34-xxxx ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction : ≥ 15 - < 20 %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

ETHYLBENZENE ; REACH registration No. : 01-2119489370-35 ; EC No. : 202-849-4; CAS No. : 100-41-4

Weight fraction : ≥ 1 - < 5 %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332

MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; REACH registration No. : 01-2119491304-40-xxxx ; EC No. : 915-687-0; CAS No. : 1065336-91-5

Weight fraction : ≥ 0,1 - < 0,5 %  
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

A MIXTURE OF: ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL- HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHE- NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) ; REACH registration No. : 01-0000015075-76-xxxx ; EC No. : 400-830-7

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** Lithofin MN Flagstone-Sealant

**Revision date :** 23.05.2017

**Version (Revision) :** 2.0.0 (1.0.0)

**Print date :** 28.06.2017

**Page :** 3 / 12

Weight fraction :  $\geq 0,1 - < 0,5$  %  
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411  
ISOBUTYL METHACRYLATE ; REACH registration No. : 01-2119488331-38-xxxx ; EC No. : 202-613-0; CAS No. : 97-86-9  
Weight fraction :  $\geq 0,1 - < 0,5$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Acute 1 ; H400

#### Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation. < 0,1% Benzene, REG(EC) No 1272/2008, Annex VI; J, P  
Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice. Observe risk of aspiration if vomiting occurs.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

#### After ingestion

Call a physician immediately. Keep at rest. Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water alcohol resistant foam ABC-powder Carbon dioxide (CO<sub>2</sub>) Water spray

#### Unsuitable extinguishing media

High power water jet Strong water jet

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

Use suitable breathing apparatus.

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases.

## SECTION 6: Accidental release measures

**Trade name : Lithofin MN Flagstone-Sealant**

Revision date : 23.05.2017  
Print date : 28.06.2017

Version (Revision) : 2.0.0 (1.0.0)  
Page : 4 / 12

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

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

**6.2 Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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

**For cleaning up**

Suitable material for taking up: Universal binder

**6.4 Reference to other sections**

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

When using do not eat, drink, smoke, sniff.

**Protective measures**

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists  
Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

**Measures to prevent fire**

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of ignition. - No smoking. The product is: Combustible

**Fire class :** B

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

**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep/Store only in original container.

**Hints on joint storage**

**Storage class (TRGS 510) :** 3

**Recommended storage temperature** 5 - 25 °C

**Further information on storage conditions**

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

**7.3 Specific end use(s)**

**Recommendation**

Observe technical data sheet. Observe instructions for use.

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

**8.1 Control parameters**

**Occupational exposure limit values**

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 100 ppm / 440 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : H

Version : 04.11.2017

Limit value type (country of origin) : TRGS 903 ( D )

Parameter : Xylene / Whole blood (B) / End of exposure or end of shift

Limit value : 1,5 mg/l

Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 ( D )

Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift

Limit value : 2 g/l

Version : 31.03.2004

Limit value type (country of origin) : STEL ( EC )

Limit value : 100 ppm / 442 mg/m<sup>3</sup>

Remark : H

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

## Trade name : Lithofin MN Flagstone-Sealant

Revision date : 23.05.2017  
Print date : 28.06.2017

Version (Revision) : 2.0.0 (1.0.0)  
Page : 5 / 12

---

Version : 08.06.2000  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 50 ppm / 221 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000  
ETHYLBENZENE ; CAS No. : 100-41-4  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 20 ppm / 88 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : H, Y  
Version : 04.11.2017  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Ethylbenzene / Whole blood (B) / End of exposure or end of shift  
Limit value : 1 mg/l  
Version : 31.03.2004  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Mandelic acid + Phenylglyoxyl acid / Urine (U) / End of exposure or end of shift  
Limit value : 800 mg/g Kr  
Version : 31.03.2004  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 200 ppm / 884 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 100 ppm / 442 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

##### Suitable eye protection

Eye glasses with side protection goggles

##### Required properties

DIN EN 166

#### Skin protection

##### Hand protection

**Suitable gloves type** : Gloves with long cuffs

**Suitable material** : Data apply to the main component. FKM (fluoro rubber), 0,7mm, >8h;

**Recommended glove articles** : Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

**Additional hand protection measures** : Check leak tightness/impermeability prior to use.

**Remark** : Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Body protection

Protective clothing.

**Suitable protective clothing** : Chemical protection clothing Chemical resistant safety shoes

**Required properties** : antistatic.

**Recommended protective clothing articles** : DIN EN ISO 20345 DIN EN 13034 DIN EN 14605 DIN EN 14404

**Remark** : Barrier creams are not substitutes for body protection.

#### Respiratory protection

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

##### Suitable respiratory protection apparatus

Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

##### Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### General health and safety measures

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** Lithofin MN Flagstone-Sealant

**Revision date :** 23.05.2017

**Version (Revision) :** 2.0.0 (1.0.0)

**Print date :** 28.06.2017

**Page :** 6 / 12

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** viscous

**Colour :** colourless

**Odour :** solvent

#### Safety relevant basis data

<b>Freezing point :</b>	( 1013 hPa )	<	-13	°C	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	approx.	145	°C	
<b>Decomposition temperature :</b>	( 1013 hPa )		not determined		
<b>Flash point :</b>		approx.	37	°C	closed cup
<b>Ignition temperature :</b>			not determined		
<b>Sustaining combustion</b>			Yes		UN Test L2:Sustained combustibility test
<b>Lower explosion limit :</b>			not determined		
<b>Upper explosion limit :</b>			not determined		
<b>Vapour pressure :</b>	( 50 °C )	<	3000	hPa	
<b>Density :</b>	( 20 °C )	approx.	0,9	g/cm <sup>3</sup>	Pyknometer
<b>Solvent separation test :</b>	( 20 °C )	<	3	%	
<b>Water solubility</b>	( 20 °C )		immiscible		
<b>pH :</b>			not applicable		
<b>log P O/W :</b>			not determined		
<b>Flow time :</b>	( 23 °C )	approx.	32	s	ISO cup 4 mm
<b>Odour threshold :</b>			not determined		
<b>Vapourisation rate :</b>			not determined		
<b>VOC-FR</b>			A+		

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

No hazardous reaction when handled and stored according to provisions.

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50 ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Oral
Species :	Rat
Effective dose :	8700 mg/kg
Parameter :	LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** Lithofin MN Flagstone-Sealant

**Revision date :** 23.05.2017

**Version (Revision) :**

2.0.0 (1.0.0)

**Print date :** 28.06.2017

**Page :**

7 / 12

Exposure route : Oral  
Species : Rat  
Effective dose : 3500 mg/kg  
Parameter : LD50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE-NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXPPLY(OXYETHYLENE) )

Exposure route : Oral  
Species : Rat  
Effective dose : > 5000 mg/kg  
Method : OECD 401  
Parameter : LD50 ( MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; CAS No. : 1065336-91-5 )

Exposure route : Oral  
Species : Rat  
Effective dose : 3230 mg/kg  
Parameter : LD50 ( Hydrocarbons, C9, aromatics ; CAS No. : (64742-95-6) )

Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 - 5000 mg/kg

**Acute dermal toxicity**

Parameter : LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )

Exposure route : Dermal  
Species : Rabbit  
Effective dose : 15354 mg/kg

Parameter : LD50 ( Hydrocarbons, C9, aromatics ; CAS No. : (64742-95-6) )

Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg

Parameter : LD50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE-NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXPPLY(OXYETHYLENE) )

Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg

**Acute inhalation toxicity**

Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Inhalation  
Species : Rat  
Effective dose : 6350 mg/l

Parameter : LC50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )

Exposure route : Inhalation  
Species : Mouse  
Effective dose : 35,5 mg/l

Parameter : LD50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHE-NYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXPPLY(OXYETHYLENE) )

Exposure route : Inhalation  
Species : Rat  
Effective dose : > 5800 mg/m<sup>3</sup>  
Exposure time : 4 h  
Method : OECD 403

**Specific symptoms in animal studies**

No data available

**Trade name : Lithofin MN Flagstone-Sealant**

Revision date : 23.05.2017  
Print date : 28.06.2017

Version (Revision) : 2.0.0 (1.0.0)  
Page : 8 / 12

**Irritant and corrosive effects**

**Assessment/classification**

Repeated exposure may cause skin dryness or cracking.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

No indication of human carcinogenicity.

**Germ cell mutagenicity**

**In vivo mutagenicity**

**Other information**

No experimental indications of in vivo mutagenicity exist.

**Human toxicological data**

**Other information**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

**Practical experience/human evidence**

No indications of human reproductive toxicity exist.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

**Acute (short-term) fish toxicity**

Parameter :	LC50 ( XYLENE ; CAS No. : 1330-20-7 )
Species :	Fish
Effective dose :	7,6 mg/l
Exposure time :	96 h
Parameter :	LC50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )
Species :	Fish
Effective dose :	94,44 mg/l
Exposure time :	96 h
Parameter :	LC50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPLY(OXYETHYLENE) )
Species :	Fish
Effective dose :	2,8 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; CAS No. : 1065336-91-5 )
Species :	Fish
Effective dose :	0,97 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( Hydrocarbons, C9, aromatics ; CAS No. : (64742-95-6) )
Species :	Fish
Effective dose :	> 1 - 10 mg/l

**Chronic (long-term) fish toxicity**

Parameter :	NOEC ( XYLENE ; CAS No. : 1330-20-7 )
Species :	Fish
Effective dose :	> 1 - 10 mg/l

**Acute (short-term) daphnia toxicity**

Parameter :	EC50 ( XYLENE ; CAS No. : 1330-20-7 )
Species :	Daphnia
Effective dose :	3,82 mg/l
Exposure time :	48 h
Parameter :	EC50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )
Species :	Daphnia
Effective dose :	2,1 mg/l



**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** Lithofin MN Flagstone-Sealant

**Revision date :** 23.05.2017  
**Print date :** 28.06.2017

**Version (Revision) :** 2.0.0 (1.0.0)  
**Page :** 9 / 12

Exposure time : 48 h  
Parameter : EC50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )  
Species : Daphnia  
Effective dose : 4 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; CAS No. : 1065336-91-5 )  
Species : Daphnia  
Effective dose : 20 mg/l  
Exposure time : 24 h  
Method : OECD 202  
Parameter : EC50 ( Hydrocarbons, C9, aromatics ; CAS No. : (64742-95-6) )  
Species : Daphnia  
Effective dose : > 1 - 10 mg/l

**Chronic (long-term) daphnia toxicity**

Parameter : NOEC ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )  
Species : Daphnia  
Effective dose : 0,78 mg/l  
Exposure time : 21 d  
Method : OECD 202

**Acute (short-term) algae toxicity**

Parameter : IC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Algae  
Effective dose : 4,7 mg/l  
Exposure time : 72 h  
Parameter : IC50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Species : Algae  
Effective dose : 4,6 mg/l  
Exposure time : 72 h  
Parameter : IC50 ( A MIXTURE OF:ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXPOLY(OXYETHYLENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT- BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPPPLY(OXYETHYLENE) )  
Species : Algae  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : IC50 ( MIXTURE OF: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ; CAS No. : 1065336-91-5 )  
Species : Algae  
Effective dose : 1,68 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : IC50 ( Hydrocarbons, C9, aromatics ; CAS No. : (64742-95-6) )  
Species : Algae  
Effective dose : > 1 - 10 mg/l

**Sediment toxicity**

**Toxicity to soil macroorganisms**

**Acute earthworm toxicity**

**Chronical earthworm toxicity (reproduction)**

**Long-term toxicity of organisms living in the sediment**

**Effects in sewage plants**

Observe local regulations concerning effluent treatment.

**12.2 Persistence and degradability**

No data available

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** Lithofin MN Flagstone-Sealant

Revision date : 23.05.2017  
Print date : 28.06.2017

Version (Revision) : 2.0.0 (1.0.0)  
Page : 10 / 12

**Abiotic degradation**

Abiotic degradation in Water

Hydrolysis

**Biodegradation**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6 Other adverse effects**

No data available

**12.7 Additional ecotoxicological information**

**Additional information**

The product has not been tested.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Dispose according to legislation.

**Product/Packaging disposal**

**Waste codes/waste designations according to EWC/AVV**

**Waste code product**

Waste code (91/689/EEC) : 07 01 04\*

**Waste code packaging**

Waste code packaging: 15 01 10\*

**Waste treatment options**

29/35 - Do not empty into drains; dispose of this material and its container in a safe way. Delivery to an approved waste disposal company.

**Appropriate disposal / Package**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

**13.2 Additional information**

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

**SECTION 14: Transport information**

**14.1 UN number**

UN 1993

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

FLAMMABLE LIQUID, N.O.S. ( TURPENTINE SUBSTITUTE · XYLENE )

**Sea transport (IMDG)**

FLAMMABLE LIQUID, N.O.S. ( TURPENTINE SUBSTITUTE · XYLENE )

**Air transport (ICAO-TI / IATA-DGR)**

FLAMMABLE LIQUID, N.O.S. ( TURPENTINE SUBSTITUTE · XYLENE )

**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

**Class(es) :** 3

**Classification code :** F1

**Hazard identification number (Kemler**

**No.) :** 30

**Tunnel restriction code :** D/E

**Special provisions :** 640E · LQ 5 I · E 1

**Hazard label(s) :** 3 / N

**Sea transport (IMDG)**

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** Lithofin MN Flagstone-Sealant

Revision date : 23.05.2017  
Print date : 28.06.2017

Version (Revision) : 2.0.0 (1.0.0)  
Page : 11 / 12

Class(es) : 3  
EmS-No. : F-E / S-E  
Special provisions : LQ 5 I - E 1  
Hazard label(s) : 3 / N  
Air transport (ICAO-TI / IATA-DGR)  
Class(es) : 3  
Special provisions : E 1  
Hazard label(s) : 3

**14.4 Packing group**

III

**14.5 Environmental hazards**

Land transport (ADR/RID) : Yes  
Sea transport (IMDG) : Yes (P)  
Air transport (ICAO-TI / IATA-DGR) : Yes

**14.6 Special precautions for user**

None

**SECTION 15: Regulatory information**

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

**EU legislation**

REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (clp)

Directive 2008/98/EC of the European Parliament and of the Council on waste (2000/532/EC)

EN 2:1992 (DIN EN 2:2005-01)

**Other regulations (EU)**

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work. (Directive 2000/39/EC, Directive 2006/15/EC, Directive 2009/161/EC)

**National regulations**

Observe in addition any national regulations! TRGS 510

**Water hazard class (WGK)**

Class : 2 (Hazardous to water) Classification according to VwVwS

**Other regulations, restrictions and prohibition regulations**

**VOCV-Regulation (CH)**

Maximum VOC content (Switzerland) : 81 Wt % according to VOCV

**15.2 Chemical safety assessment**

No information available.

**SECTION 16: Other information**

**16.1 Indication of changes**

02. Classification of the substance or mixture - 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling - 03. Hazardous ingredients

**16.2 Abbreviations and acronyms**

None

**16.3 Key literature references and sources for data**

None

**16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

No information available.

**16.5 Relevant H- and EUH-phrases (Number and full text)**

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** Lithofin MN Flagstone-Sealant

**Revision date :** 23.05.2017  
**Print date :** 28.06.2017

**Version (Revision) :** 2.0.0 (1.0.0)  
**Page :** 12 / 12

---

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
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 Training advice**

None

**16.7 Additional information**

None

---

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

---