

**Trade name :** Lithofin KF Protective Impregnator

Revision date : 30.05.2017

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

### 1.1 Product identifier

Lithofin KF Protective Impregnator

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

#### Relevant identified uses

Mixture Impregnation, aqueous solution

### 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]

None

#### Additional information

This substance is classified as not 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]

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

EUH210

Safety data sheet available on request.

### 2.3 Other hazards

None

### 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

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**Hazardous ingredients**

ETHANEDIOL ; REACH registration No. : 01-2119456816-28-xxxx ; EC No. : 203-473-3 ; CAS No. : 107-21-1

Weight fraction :  $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302

PROPAN-2-OL ; REACH registration No. : 01-2119457558-25-xxxx ; EC No. : 200-661-7 ; CAS No. : 67-63-0

Weight fraction :  $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

**Additional information**

All ingredients of this mixture are (pre)registered according to REACH regulation.

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.

**Following inhalation**

Remove casualty to fresh air and keep warm and at rest. 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**

Rinse immediately carefully and thoroughly with eye-bath or water. Protect uninjured eye. In case of eye irritation consult an ophthalmologist.

**After ingestion**

When in doubt or if symptoms are observed, get medical advice. Rinse mouth thoroughly with water. Do NOT induce vomiting.

**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>) Hydrogen fluoride Fluoropolymers

**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. The product itself does not burn. Coordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures**

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

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

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Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

**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

**Other information**

Clear spills immediately.

**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**

Not useable after freezing. 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**

The product is not: Flammable Usual measures for fire prevention.

**Fire class :** -

**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) :** 10

**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.

**Protect against :** Frost

**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**

ETHANEDIOL ; CAS No. : 107-21-1

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

Limit value : 10 ppm / 26 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : H,Y

Version : 04.11.2017

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

Limit value : 40 ppm / 104 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

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

Limit value : 20 ppm / 52 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

PROPAN-2-OL ; CAS No. : 67-63-0

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

Limit value : 200 ppm / 500 mg/m<sup>3</sup>

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Peak limitation :	2(II)
Remark :	Y
Version :	04.11.2017
Limit value type (country of origin) :	TRGS 903 ( D )
Parameter :	Acetone / Whole blood (B) / End of exposure or end of shift
Limit value :	50 mg/l
Version :	31.03.2004
Limit value type (country of origin) :	TRGS 903 ( D )
Parameter :	Acetone / Urine (U) / End of exposure or end of shift
Limit value :	50 mg/l
Version :	31.03.2004

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

Usually no personal eye/face protection necessary. Eye/face protection necessary at: Splashes, Contact with eyes, Spray application.

#### Suitable eye protection

Eye glasses with side protection goggles

#### Required properties

DIN EN 166

#### Skin protection

Usually no personal skin protection necessary. Skin protection necessary at: Splashes, Contact with skin, Spray application.

#### Hand protection

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

**Suitable material :** NBR (Nitrile rubber), 0,4mm, >8h; Butyl caoutchouc, 0,5mm, >8h; 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 :** acid-resistant. alkali-resistant.

**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 respiratory 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

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 :** liquid

**Colour :** light yellow

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**Odour :** unspecified

**Safety relevant basis data**

Freezing point :	( 1013 hPa )	approx.	-10 °C	
Initial boiling point and boiling range :	( 1013 hPa )	approx.	88 °C	
Decomposition temperature :	( 1013 hPa )		not determined	
Flash point :		approx.	36 °C	closed cup
Ignition temperature :			not determined	
Sustaining combustion			No	UN Test L2:Sustained combustibility test
Lower explosion limit :			not determined	
Upper explosion limit :			not determined	
Vapour pressure :	( 50 °C )	<	3000 hPa	
Density :	( 20 °C )	approx.	1 g/cm <sup>3</sup>	Pyknometer
Solvent separation test :	( 20 °C )	<	3 %	
Water solubility	( 20 °C )		miscible	
pH :		approx.	5	
log P O/W :			not determined	
Flow time :	( 23 °C )	approx.	13 s	ISO cup 4 mm
Odour threshold :			not determined	
Vapourisation rate :			not determined	
VOC-FR			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 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5840 mg/kg
Method :	OECD 401

**Acute dermal toxicity**

Parameter :	LD50 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Exposure route :	Dermal
Species :	Mouse
Effective dose :	> 3500 mg/kg
Parameter :	LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	13900 mg/kg
Method :	OECD 402

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**Acute inhalation toxicity**

Parameter :	LC50 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 2,5 mg/l
Exposure time :	6 h
Parameter :	LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 25 mg/l
Exposure time :	6 h
Method :	OECD 403

**Specific symptoms in animal studies**

No data available

**Irritant and corrosive effects**

**Assessment/classification**

Causes serious eye damage. Causes severe burns.

**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 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Species :	Fish
Effective dose :	72860 mg/l
Exposure time :	96 h
Parameter :	LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Fish
Effective dose :	9640 mg/l
Exposure time :	96 h

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

Parameter :	NOEC ( ETHANEDIOL ; CAS No. : 107-21-1 )
Species :	Fish
Effective dose :	15380 mg/l
Exposure time :	7 d

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

Parameter :	EC50 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Species :	Daphnia
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	OECD 202
Parameter :	EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Daphnia
Effective dose :	9714 mg/l
Exposure time :	24 h

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

Parameter : NOEC ( ETHANEDIOL ; CAS No. : 107-21-1 )  
Species : Daphnia  
Effective dose : 8590 mg/l  
Exposure time : 7 d

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

Parameter : IC50 ( ETHANEDIOL ; CAS No. : 107-21-1 )  
Species : Algae  
Effective dose : 6500 - 13000 mg/l  
Exposure time : 96 h

Parameter : IC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Algae  
Effective dose : > 100 mg/l  
Exposure time : 72 h

**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

**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 99

**Waste treatment options**

29/35 - Do not empty into drains; dispose of this material and its container in a safe way.

**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**

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**14.1 UN number**

No dangerous good in sense of these transport regulations.

**14.2 UN proper shipping name**

No dangerous good in sense of these transport regulations.

**14.3 Transport hazard class(es)**

No dangerous good in sense of these transport regulations.

**14.4 Packing group**

No dangerous good in sense of these transport regulations.

**14.5 Environmental hazards**

No dangerous good in sense of these transport regulations.

**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 : 1 (Slightly hazardous to water) Classification according to VwVwS

**Other regulations, restrictions and prohibition regulations**

**VOCV-Regulation (CH)**

Maximum VOC content (Switzerland) : 9,5 Wt % according to VOCV

**15.2 Chemical safety assessment**

No information available.

**15.3 Additional information**

**SECTION 16: Other information**

**16.1 Indication of changes**

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.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

**16.6 Training advice**



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None

**16.7 Additional information**

None

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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.

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