

Trade name : Lithofin KF Protective Impregnator

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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

No information available.

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 Directive 67/548/EEC or 1999/45/EC

None

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

None

Additional information

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

Remark

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

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Special provisions concerning the labelling of certain mixtures

101

Safety data sheet available for professional user on request.

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

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

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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

Description

impregnation

Hazardous ingredients

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

Weight fraction : 5 - 10 %

Classification 67/548/EEC : Xn ; R22

Classification 1272/2008 [CLP] : 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 : 5 - 10 %

Classification 67/548/EEC : F ; R11 Xi ; R36 R67

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. < 0,1% Benzene, REG(EC) No 1272/2008, Annex VI; J, P

Full text of R-, 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. Observe risk of aspiration if vomiting occurs.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. 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 (CO2) Water spray

Unsuitable extinguishing media

Full water jet Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

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Carbon monoxide. Carbon dioxide (CO₂) 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.

SECTION 6: Accidental release measures

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

Not useable after freezing. Inhalation of vapours or spray/mists Skin contact Eye contact Wear personal protection equipment (see chapter 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 : -

Shake before use nein

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

Protect from frost ja

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/m³

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Peak limitation : 2(l)
Remark : H,Y
Version : 01.09.2012
Limit value type (country of origin) : STEL (EC)
Limit value : 40 ppm / 104 mg/m³
Remark : H
Version : 08.06.2000
Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 52 mg/m³
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/m³
Peak limitation : 2(II)
Remark : Y
Version : 01.09.2012
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

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL/DMEL (DNEL Consumer, Local) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 7 mg/m³
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 319 mg/kg/d
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 89 mg/m³
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 53 mg/kg
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 26 mg/kg/d
Limit value type : DNEL/DMEL (Worker, Local) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 35 mg/m³
Limit value type : DNEL/DMEL (Worker, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 888 mg/kg/d
Limit value type : DNEL/DMEL (Worker, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 500 mg/m³
Limit value type : DNEL/DMEL (Worker, Systemic) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 106 mg/kg

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PNEC

Limit value type :	PNEC aquatic, freshwater (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value :	10 mg/l
Limit value type :	PNEC aquatic, freshwater (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	140,9 mg/l
Limit value type :	PNEC aquatic, intermittent release (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	140,9 mg/l
Limit value type :	PNEC aquatic, intermittent release (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value :	10 mg/l
Limit value type :	PNEC aquatic, marine water (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value :	1 mg/l
Limit value type :	PNEC aquatic, marine water (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	140,9 mg/l
Limit value type :	PNEC sediment, freshwater (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	552 mg/kg
Limit value type :	PNEC sediment, freshwater (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value :	20,9 mg/kg
Limit value type :	PNEC sediment, marine water (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	552 mg/kg
Limit value type :	PNEC Secondary Poisoning (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	160 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	2251 mg/l
Limit value type :	PNEC sewage treatment plant (STP) (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value :	199,5 mg/l

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 : 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 : 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 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

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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

Odour : unspecific

Safety relevant basis data

Freezing point :	(1013 hPa)	ca.	-10	°C	
Boiling temperature/boiling range :	(1013 hPa)	ca.	88	°C	
Decomposition temperature :	(1013 hPa)		not determined		
Flash point :		ca.	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)	ca.	1	g/cm ³	Pyknometer
Solvent separation test :	(20 °C)	<	3	%	
Water solubility	(20 °C)		miscible		
pH value :		ca.	5		
log P O/W :			not determined		
Flow time :	(23 °C)	ca.	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

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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

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 : > 26 mg/l
Exposure time : 6 h
Method : OECD 403

Specific symptoms in animal studies

No data available

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/Genotoxicity

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 Tage

Acute (short-term) daphnia toxicity

Parameter : EC50 (ETHANEDIOL ; CAS No. : 107-21-1)
Species : Daphnia
Effective dose : > 100 mg/l

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Exposure time : 48 h
Method : OECD 202

Chronic (long-term) daphnia toxicity

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

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

Effects in sewage plants

Observe local regulations concerning effluent treatment.

12.2 Persistence and degradability

No data available

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 Further ecological 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

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

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

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14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

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

National regulations

Observe in addition any national regulations!

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.

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. Special rules for supplemental label elements for certain mixtures · 02. Labelling (67/548/EEC or 1999/45/EC) · 02. Labelling (67/548/EEC or 1999/45/EC) - Hazard components for labelling · 02. Special provisions concerning the labelling of certain mixtures · 03. Hazardous ingredients · 15. Technische Anleitung Luft (TA-Luft)

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Relevant R-, 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.
R11	Highly flammable.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

16.5 Training advice

None

16.6 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.