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

Trade name : Lithofin MN Stain-Stop

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

1.1 Product identifier
Lithofin MN Stain-Stop

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Mixture Impregnation, 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]
Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.
Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.
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

Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

Signal word
Danger

Hazard components for labelling

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9)

Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.

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.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

Supplemental Hazard information (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.

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-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; REACH registration No. : 01-2119463258-33-xxxx ; EC No. : 919-857-5; CAS No. : (64742-48-9)

Weight fraction : ≥ 80 - < 85 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336

N-BUTYL ACETATE ; REACH registration No. : 01-2119485493-29-xxxx ; EC No. : 204-658-1; CAS No. : 123-86-4

Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

(2-METHOXYMETHYLETHOXY)PROPANOL ; REACH registration No. : 01-2119450011-60-xxxx ; EC No. : 252-104-2; CAS No. : 34590-94-8

Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Substance with a common (EC) occupational exposure limit value.

ALKANES, C11-15-ISO- ; REACH registration No. : 01-2119456810-40-xxxx ; EC No. : 292-460-6; CAS No. : 90622-58-5

Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304

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 (CO2) 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 (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

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9)

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 600 mg/m³
Version :

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 62 ppm / 300 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 04.11.2017

(2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 50 ppm / 310 mg/m³
Peak limitation : 1(I)
Version : 04.11.2017

Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 308 mg/m³
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 : NBR (Nitrile rubber), 0,4mm, >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 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

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
Odour : solvent

Safety relevant basis data

Freezing point :	(1013 hPa)	<	-13	°C	
Initial boiling point and boiling range :	(1013 hPa)	approx.	152	°C	
Decomposition temperature :	(1013 hPa)		not determined		
Flash point :		approx.	32	°C	closed cup
Ignition temperature :			not determined		
Sustaining combustion			Yes		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.	0,8	g/cm³	Pyknometer
Solvent separation test :	(20 °C)	<	3	%	
Water solubility	(20 °C)		hydrolysed		
pH :			not applicable		
log P O/W :			not determined		
Flow time :	(23 °C)	<	15	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 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	10760 mg/kg
Method :	OECD 423
Parameter :	LD50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	5135 mg/kg
Parameter :	LD50 (ALKANES, C11-15-ISO- ; CAS No. : 90622-58-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 14112 mg/kg
Method :	OECD 402
Parameter :	LD50 (ALKANES, C11-15-ISO- ; CAS No. : 90622-58-5)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 3160 mg/kg
Parameter :	LD50 (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg
Parameter :	LD50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 13000 - 14000 mg/kg

Acute inhalation toxicity

Parameter :	LC50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	3,35 mg/l
Exposure time :	7 h
Parameter :	LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	23,4 mg/l
Exposure time :	4 h
Method :	OECD 403
Parameter :	LD50 (ALKANES, C11-15-ISO- ; CAS No. : 90622-58-5)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 5000 mg/m^3

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

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 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species :	Fish
Effective dose :	18 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Species :	Fish
Effective dose :	> 10000 mg/l
Exposure time :	96 h
Parameter :	LC50 (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Fish
Effective dose :	> 1000 mg/l
Exposure time :	96 h
Method :	OECD 203

Chronic (long-term) fish toxicity

Parameter :	NOEC (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Fish
Effective dose :	> 0,1 - 1 mg/l

Acute (short-term) daphnia toxicity

Parameter :	EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species :	Daphnia
Effective dose :	44 mg/l
Exposure time :	48 h
Parameter :	EC50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Species :	Daphnia
Effective dose :	1919 mg/l
Exposure time :	48 h
Parameter :	EC50 (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Daphnia
Effective dose :	> 1000 mg/l
Exposure time :	48 h
Method :	OECD 202

Chronic (long-term) daphnia toxicity

Parameter :	NOEC (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS

No. : (64742-48-9))
Species : Daphnia
Effective dose : > 0,1 - 1 mg/l

Acute (short-term) algae toxicity
Parameter : IC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : Algae
Effective dose : 648 mg/l
Exposure time : 72 h
Parameter : IC50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Species : Algae
Effective dose : > 969 mg/l
Exposure time : 72 h
Parameter : IC50 (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Species : Algae
Effective dose : > 1000 mg/l
Exposure time : 72 h
Method : OECD 201

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 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 · N-BUTYL ACETATE)

Sea transport (IMDG)
FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE · N-BUTYL ACETATE)

Air transport (ICAO-TI / IATA-DGR)
FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE · N-BUTYL ACETATE)

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 :	LQ 5 l · E 1
Hazard label(s) :	3

Sea transport (IMDG)

Class(es) :	3
EmS-No. :	F-E / S-E
Special provisions :	LQ 5 l · E 1
Hazard label(s) :	3

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) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

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) : 87,6 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 · 14. Transport hazard class(es) - Land transport (ADR/RID)

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)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.

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.