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

Trade name : Lithofin KF Stain-Stop

Revision date : 04.06.2025 **Version (Revision) :** 4.3.0 (4.2.8)
Print date : 11.07.2025

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

1.1 Product identifier
Lithofin KF 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 Details of the supplier of the safety data sheet

Distributor :	Casdron Enterprises Ltd.
Street :	Wood End, Prospect Road
Postal code/City :	New Alresford, Hants SO 24 9QF
Land :	GREAT BRITAIN
Telefone :	+44 1962 732126
Telefax :	+44 1962 735373
Contact :	Technical Department
E-mail :	sales@lithofin.co.uk
Emergency telephone number :	**+44 1962 732126** (Only available during office hours)
Supplier :	Lithofin AG
Street :	Heinrich-Otto-Str. 36
Postal code/City :	73240 Wendlingen
Country :	GERMANY
Telefone :	+49 7024 9403 0
Telefax :	+49 7024 9403 40
Contact :	Technical Department
E-mail :	info@lithofin.de
Emergency telephone number :	**+49 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]
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.
Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.
Additional information
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
Remark
For full text of Hazard- and EU Hazard-statements: 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/container in accordance with local and national regulations.

Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.

Other labelling

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).

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

2.4 Additional information

see section 12.5

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; REACH 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 EUH066

N-BUTYL ACETATE ; REACH 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 EUH066

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; REACH No. : 01-2119472146-39-xxxx ; EC No. : 918-167-1; CAS No. : (64742-48-9)
Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Aquatic Chronic 4 ; H413 EUH066

Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; REACH No. : 01-2119456810-40-xxxx ; EC No. : 920-901-0; CAS No. : (64742-48-9)
Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304 EUH066

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH

None (below the concentration limit)

Contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH

None (below the concentration limit)

Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation.
< 0,1% Benzene, Regulation (EC) No. 1272/2008, Annex VI; J, P
For full text of Hazard- and EU Hazard-statements: 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 but breathing normally, 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.

Following 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

Notes for the doctor

Treat symptomatically.

Special treatment

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam Carbon dioxide (CO2) BC-powder ABC-powder Water spray jet

Unsuitable extinguishing media

Full 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
Clean contaminated articles and floor according to the environmental legislation. Retain contaminated washing water and dispose it. Dispose of waste according to applicable legislation.

6.4 Reference to other sections

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

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. Technical measures and the application of suitable work processes have priority over personal protection equipment.

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
Shake well before use	nein

Advices on general occupational hygiene

P362+P364 - Take off contaminated clothing and wash it before reuse.

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. The floor should be leak tight, jointless and not absorbent. Ensure adequate ventilation of the storage area.

Hints on joint storage

Storage class (TRGS 510) : 3
Protect from frost nein
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) : KZW (A)
Limit value : 400 ppm
Peak limitation : 30 Min, 4x
Version :

Limit value type (country of origin) : TMW / TWA (A)
Limit value : 200 ppm
Version :

Limit value type (country of origin) : KZG / STEL (CH)
Limit value : 100 ppm / 600 mg/m^3
Version :

Limit value type (country of origin) : MAK (CH)
Limit value : 50 ppm / 300 mg/m^3
Version :

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 300 mg/m^3
Peak limitation : 2(II)
Version :

Limit value type (country of origin) : TWA (N)
Limit value : 50 ppm / 275 mg/m^3
Remark : (White Spirit, < 22% aromatic compounds)
Version :

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

Limit value type (country of origin) : KZW (A)
Limit value : 100 ppm / 480 mg/m^3
Peak limitation : Mow
Version :

Limit value type (country of origin) : TMW / TWA (A)
Limit value : 50 ppm / 241 mg/m^3
Version :

Limit value type (country of origin) : STEL (AUS)
Limit value : 100 ppm / 541 mg/m^3

Version :
Limit value type (country of origin) : TWA (AUS)
Limit value : 50 ppm / 270 mg/m³
Version :
Limit value type (country of origin) : STEL (B)
Limit value : 150 ppm / 712 mg/m³
Version :
Limit value type (country of origin) : TWA (B)
Limit value : 50 ppm / 238 mg/m³
Version :
Limit value type (country of origin) : KZG / STEL (CH)
Limit value : 150 ppm / 720 mg/m³
Remark : SSc
Version :
Limit value type (country of origin) : MAK (CH)
Limit value : 50 ppm / 240 mg/m³
Remark : SSc
Version :
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 62 ppm / 300 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 17.06.2024
Limit value type (country of origin) : TWA (DK)
Limit value : 50 ppm / 241 mg/m³
Remark : E
Version :
Limit value type (country of origin) : VLA-EC / STEL (E)
Limit value : 150 ppm / 723 mg/m³
Remark : VLI
Version :
Limit value type (country of origin) : VLA-ED / TWA (E)
Limit value : 50 ppm / 241 mg/m³
Remark : VLI
Version :
Limit value type (country of origin) : STEL (EC)
Limit value : 150 ppm / 723 mg/m³
Version : 09.03.2022
Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 241 mg/m³
Version : 09.03.2022
Limit value type (country of origin) : VLEP 8h / TWA (F)
Limit value : 50 ppm / 241 mg/m³
Version :
Limit value type (country of origin) : VLEP CT / STEL (F)
Limit value : 150 ppm / 723 mg/m³
Version :
Limit value type (country of origin) : STEL (GB)
Limit value : 200 ppm / 966 mg/m³
Version :
Limit value type (country of origin) : TWA (GB)
Limit value : 150 ppm / 724 mg/m³
Version :

Limit value type (country of origin) : ÁK (H)
Limit value : 50 ppm / 241 mg/m³
Remark : i, sz
Version :

Limit value type (country of origin) : CK-érték / STEL (H)
Limit value : 150 ppm / 723 mg/m³
Remark : i, sz
Version :

Limit value type (country of origin) : STEL (I)
Limit value : 150 ppm / 723 mg/m³
Version :

Limit value type (country of origin) : TWA (I)
Limit value : 50 ppm / 241 mg/m³
Version :

Limit value type (country of origin) : OELV 15 min / STEL (IRL)
Limit value : 150 ppm / 723 mg/m³
Remark : IOELV
Version :

Limit value type (country of origin) : OELV 8h / TWA (IRL)
Limit value : 50 ppm / 241 mg/m³
Remark : IOELV
Version :

Limit value type (country of origin) : TGG 15 min / STEL (NL)
Limit value : 150 ppm / 723 mg/m³
Version :

Limit value type (country of origin) : TGG 8 uur / TWA (NL)
Limit value : 50 ppm / 241 mg/m³
Version :

Limit value type (country of origin) : STEL (NZ)
Limit value : 200 ppm / 950 mg/m³
Version :

Limit value type (country of origin) : TWA (NZ)
Limit value : 150 ppm / 713 mg/m³
Version :

Limit value type (country of origin) : NDSCH (PL)
Limit value : 720 mg/m³
Version :

Limit value type (country of origin) : NDS (PL)
Limit value : 240 mg/m³
Version :

Limit value type (country of origin) : STEL (ROK)
Limit value : 200 ppm
Version :

Limit value type (country of origin) : TWA (ROK)
Limit value : 150 ppm
Version :

Limit value type (country of origin) : ACGIH STEL (USA)
Limit value : 150 ppm / 712 mg/m³
Version :

Limit value type (country of origin) : ACGIH TLV (USA)
Limit value : 50 ppm / 238 mg/m³
Version :

Limit value type (country of origin) : NIOSH REL STEL (USA)

Limit value : 200 ppm / 950 mg/m³
Version :
Limit value type (country of origin) : NIOSH REL TWA (USA)
Limit value : 150 ppm / 710 mg/m³
Version :
Limit value type (country of origin) : OSHA PEL TWA (USA)
Limit value : 150 ppm / 710 mg/m³
Remark : Appendix G (STEL 200 ppm, 950 mg/m³)
Version :

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9)
Limit value type (country of origin) : KZW (A)
Limit value : 400 ppm
Peak limitation : 30 Min, 4x
Version :
Limit value type (country of origin) : TMW / TWA (A)
Limit value : 200 ppm
Version :
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 600 mg/m³
Version :
Limit value type (country of origin) : TWA (N)
Limit value : 50 ppm / 275 mg/m³
Remark : (White Spirit, < 22% aromatic compounds)
Version :

Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9)
Limit value type (country of origin) : KZW (A)
Limit value : 400 ppm
Peak limitation : 30 Min, 4x
Version :
Limit value type (country of origin) : TMW / TWA (A)
Limit value : 200 ppm
Version :
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 600 mg/m³
Version :
Limit value type (country of origin) : TWA (N)
Limit value : 50 ppm / 275 mg/m³
Remark : (White Spirit, < 22% aromatic compounds)
Version :

DNEL-/PNEC-values

DNEL/DMEL

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9)
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 125 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 125 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term

Limit value :	185 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	208 mg/kg bw/day
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	871 mg/m³

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

Limit value type :	DNEL Consumer (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	300 mg/m³
Limit value type :	DNEL Consumer (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	35,7 mg/m³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Short-term
Limit value :	2 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	2 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	6 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	6 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	300 mg/m³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	35,7 mg/m³
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	600 mg/m³
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	300 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	11 mg/kg bw/day
Limit value type :	DNEL worker (systemic)

Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	11 mg/kg bw/day
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	600 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	300 mg/m³

PNEC

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

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,18 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	0,36 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,018 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	0,981 mg/kg dw
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,098 mg/kg dw
Limit value type :	PNEC (Soil)
Limit value :	0,09 mg/kg dw
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	35,6 mg/l

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation of the storage area.
Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses with side protection goggles

Required properties

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;

Required properties : EN ISO 374

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. Barrier creams are not substitutes for body protection.

Body protection

Protective clothing.

Suitable protective clothing : Chemical protection clothing Chemical resistant safety shoes

Required properties : antistatic.
Protective clothing. : EN 13034 EN 14605
Chemical resistant safety shoes : EN ISO 20345
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

Full-/half-/quarter-face masks (EN 136/140) Combination filtering device 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 information

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. Do not breathe gas/fumes/vapour/spray.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid
Colour : light yellow
Odour : solvent

Safety characteristics

Melting point/freezing point :	(1013 hPa)	<	-18	°C	
Initial boiling point and boiling range :	(1013 hPa)	approx.	161	°C	
Decomposition temperature :	(1013 hPa)		not determined		
Flash point :		approx.	33,5	°C	closed cup (EN ISO 3679)
Auto-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)		0,79	g/cm³	Pyknometer (DIN EN ISO 2811-1)
Relative density :	(20 °C)		not determined		
Solvent separation test :	(20 °C)	<	3	%	Test L1: Solvent separation test (UN)
Water solubility	(20 °C)		hydrolysed		
Fat solubility :	(20 °C)		Not determined.		
pH :			not applicable		DIN 19268
log P O/W :			not determined		(Mixture)
Flow time :	(23 °C)	<	15	s	ISO cup 4 mm (DIN EN ISO 2431)
Odour threshold :			not determined		
Vapourisation rate :			not determined		
VOC content-EC			91,1	Weight-%	*
VOC content-EC			716	g/l	*
VOC-France			A+		Décret no 2011-321 du 23 mars 2011
Flammable solids :	Not determined.				

(* VOC-EC = „Volatile organic compound (VOC)" means any organic compound having an initial boiling point less than or equal to 250°C measured at a standard pressure of 101,3 kPa; VOC-value in g/L)

9.2 Other information

Data apply to the main component:
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS: 64742-48-9)
Lower explosion limit (Vol-%): 0,6
Upper explosion limit (Vol-%): 6,0
log P O/W: 5,0 - 6,7

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

Acute oral toxicity

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
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 (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Exposure route :	Oral
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Exposure route :	Oral
Effective dose :	> 5000 mg/kg

Acute dermal toxicity

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 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 14112 mg/kg
Method :	OECD 402
Parameter :	LD50 (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Exposure route :	Dermal
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Exposure route :	Dermal
Effective dose :	> 5000 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	0,74 mg/l
Exposure time :	4 h
Method :	OECD 403

Specific effects (Longterm animal experiment)

There are no data available on the preparation/mixture itself.

Corrosion

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

Assessment/classification

Repeated exposure may cause skin dryness or cracking.

Respiratory or skin sensitisation

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

Repeated dose toxicity (subacute, subchronic, chronic)

There are no data available on the preparation/mixture itself.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

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

Germ cell mutagenicity

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

Reproductive toxicity

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

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

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

Acute (short-term) fish toxicity

Parameter :	LC50 (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 1000 mg/l
Exposure time :	96 hour(s)
Method :	OECD 203
Parameter :	LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	18 mg/l
Exposure time :	96 hour(s)
Method :	OECD 203
Parameter :	LC50 (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Parameter :	LC50 (Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l

Chronic (long-term) fish toxicity

Parameter :	NOEC (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Fish
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	0,131 mg/l
Exposure time :	28 day(s)
Parameter :	NOEC (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Fish
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	< 1 mg/l
Parameter :	NOEC (Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Fish
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	< 1 mg/l

Acute (short-term) toxicity to aquatic invertebrates

Parameter :	EC50 (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Daphnia
Evaluation parameter :	Acute (short-term) toxicity to aquatic invertebrates
Effective dose :	> 1000 mg/l
Exposure time :	48 hour(s)
Method :	OECD 202
Parameter :	EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species :	Daphnia
Evaluation parameter :	Acute (short-term) toxicity to aquatic invertebrates
Effective dose :	44 mg/l

Exposure time :	48 hour(s)
Parameter :	EC50 (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Daphnia
Evaluation parameter :	Acute (short-term) toxicity to aquatic invertebrates
Effective dose :	> 100 mg/l
Parameter :	EC50 (Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Daphnia
Evaluation parameter :	Acute (short-term) toxicity to aquatic invertebrates
Effective dose :	> 100 mg/l

Chronic (long-term) toxicity to aquatic invertebrate

Parameter :	NOEC (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Daphnia
Evaluation parameter :	Chronic (long-term) toxicity to aquatic invertebrate
Effective dose :	0,23 mg/l
Exposure time :	21 day(s)
Parameter :	NOEC (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species :	Daphnia
Evaluation parameter :	Chronic (long-term) toxicity to aquatic invertebrate
Effective dose :	23 mg/l
Exposure time :	21 day(s)
Method :	OECD 211
Parameter :	NOEC (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Daphnia
Evaluation parameter :	Chronic (long-term) toxicity to aquatic invertebrate
Effective dose :	< 1 mg/l
Parameter :	NOEC (Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Daphnia
Evaluation parameter :	Chronic (long-term) toxicity to aquatic invertebrate
Effective dose :	< 1 mg/l

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	EC50 (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Algae
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	> 1000 mg/l
Exposure time :	72 hour(s)
Method :	OECD 201
Parameter :	EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species :	Algae
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	397 mg/l
Exposure time :	72 hour(s)
Parameter :	EC50 (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Algae
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	> 100 mg/l
Parameter :	EC50 (Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; CAS No. : (64742-48-9))
Species :	Algae
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria

Effective dose : > 100 mg/l

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : Algae
Evaluation parameter : Chronic (long-term) toxicity to aquatic algae and cyanobacteria
Effective dose : 196 mg/l
Exposure time : 72 hour(s)

Sewage treatment plant

Observe local regulations concerning effluent treatment.

12.2 Persistence and degradability

There are no data available on the preparation/mixture itself.

Biodegradation

There are no data available on the preparation/mixture itself.

12.3 Bioaccumulative potential

There are no data available on the preparation/mixture itself.

12.4 Mobility in soil

There are no data available on the preparation/mixture itself.

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 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

There are no data available on the preparation/mixture itself.

12.8 Additional ecotoxicological information

Additional information

The product has not been tested.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste according to applicable legislation.
Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

Waste code (EWC/AVV) : 07 01 04* (other organic solvents, washing liquids and mother liquors)

After intended use

Do not allow to enter into surface water or drains. Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Delivery to an approved waste disposal company.

Disposal operations

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

Waste codes/waste designations according to EWC/AVV

Waste code packaging: 15 01 10*

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 or ID number

UN 1993

14.2 UN proper shipping name

Land transport (ADR/RID)
FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE)

Sea transport (IMDG)
FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE)

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

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 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

14.7 Maritime transport in bulk according to IMO instruments

Not required.

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 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL 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)

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 40, 75

Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU)

Regulation (EC) No. 648/2004 [Detergents regulation]
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)

Regulation (EU) 2024/590 on substances that deplete the ozone layer

Not listed/not relevant.
Contains the following substances that deplete the ozone layer: -

Regulation (EC) 2019/1021 [POP Regulation]

Not listed/not relevant.
Name of the persistent organic pollutant (POP): -

Regulation (EU) 2019/1148 (marketing and use of explosives precursors)

Not listed/not relevant.

Regulation (EU) 649/2012 (PIC)

Not listed/not relevant.
Chemicals qualifying for PIC notification: -

National regulations

Observe in addition any national regulations!
Germany:
TRGS 400 (Risk assessment for activities involving hazardous substances)
TRGS 500 (Protective measures)
TRGS 510 (Storage of hazardous substances in non-stationary containers)
TRGS 555 (Working instruction and information for workers)

Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

Other regulations, restrictions and prohibition regulations

Switzerland

VOCV-Regulation

Maximum VOC content (Switzerland) : 91,1 Weight-% according to VOCV

15.2 Chemical Safety Assessment

For this substance/mixture a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Label elements

16.2 Abbreviations and acronyms

ABC-Pulver	Extinguishing powder for fire class A, B and C
ABEK-P1	combination filter
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AVV	Abfallverzeichnis-Verordnung (Waste Regulation)
AWSV	Ordinance on facilities for the handling of substances hazardous to water
BGR	BG rules and regulations
ca.	circa
CAS	Chemical Abstracts Service
CLP	classification, labelling and packaging
CMR	Carcinogen, mutagen or toxic for reproduction

DIN	German Institute for Standardization
DNEL	Derived No-Effect Level
EAK/EWC/EAC/CWR/CER	European Waste Catalogue
EC50 / CE50	Effective Concentration 50%
EG / EC / CE	European Community
EN	European Standard
EUH	supplemental hazard statement of the european union
GefStoffV	Gefahrstoffverordnung (Hazardous Substances Ordinance)
GHS / SGH	Globally Harmonised System
H-Sätze	hazard statements
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG-Code	International Maritime Dangerous Goods Code
ISO	International Organization for Standardization
LC50 / CL50	Lethal Concentration 50%
LD50 / DL50	Lethal Dose 50%
log P O/W	Partition coefficient n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (marine pollution)
NOAEL (DSET)	No observed adverse effect level
NOEC (CSEO)	No observed effect concentration
Nr.	Number
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative and toxic
pH	Potentia hydrogenii
PIC	prior informed consent
PNEC	Predicted No-Effect Concentration
POP	Persistent organic pollutants
P-Sätze	precautionary statements
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Carriage of Dangerous Goods by Rail
STEL / LECT	short-term exposure limit
TRGS	Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
TWA / MPT	time-weighted average
UN/ONU	United Nations
VOC/COV/VOS/LZO	Volatile Organic Compound
VOCV	Ordinance on the Incentive Tax on Volatile Organic Compounds (SR 814.018)
vPvB	very persistent and very bioaccumulative
WGK	Wassergefährdungsklasse (Water hazard class)

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu. For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3 Key literature references and sources for data

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
ECHA: Registered substances (https://echa.europa.eu/information-on-chemicals/registered-substances)

REACH Article 59: Candidate List of substances of very high concern for Authorisation (https://echa.europa.eu/candidate-list-table)

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

Hazard statements for physical hazards : On basis of test data.
Hazard statements for health hazards : Calculation method.
Hazard statements for environmental hazards : Calculation method.

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.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.