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

Trade name: Lithofin NanoTOP

**Revision date :** 12.08.2022 **Version (Revision) :** 4.2.5 (4.2.4)

**Print date :** 12.09.2022

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

## 1.1 Product identifier

Lithofin NanoTOP

# 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

Distributor :CDK Stone NZ Ltd.Street :2/40 Canaveral DrivePostal code/City :NZ Auckland 0632Telephone :+64 9 4750495Telefax :+64 9 4792424Contact :Technical DepartmentE-mail: sales@cdkstone

E-mail: sales@cdkstone.co.nz

Emergency telephone number: +0800 764766

(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]

Flam. Liq.  $\bf 3$  ; H226 - Flammable liquids : Category  $\bf 3$  ; 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.

Aquatic Chronic 3; H412 - Hazardous to the aquatic environment : Chronic 3; Harmful to aquatic life with long lasting effects.

# **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

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

#### Signal word

Danger

#### **Hazard components for labelling**

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; CAS No.: (64742-49-0)

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

Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics; CAS No.: (246538-78-3 Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics; CAS No.: (64741-65-7)

#### **Hazard statements**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

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.

#### 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

see section 12.5

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

# 3.2 Mixtures

## **Hazardous ingredients**

 $\label{eq:cyclics} \text{Hydrocarbons, C9-C10, $n$-alkanes, isoalkanes, cyclics, $<2\%$ aromatics ; $REACH No.: 01-2119471843-32-xxxxx ; EC No.: $|x| + |x| +$ 

927-241-2; CAS No. : (64742-49-0)

Weight fraction :  $\geq$  45 - < 50 %

Classification 1272/2008 [CLP]: Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 3; H412

EUH066

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

Weight fraction :  $\geq$  15 - < 20 %

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.:

(64741-65-7)

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

Classification 1272/2008 [CLP]: Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413 EUH066

 $\text{Hydrocarbons, C11-C13, isoalkanes, } < 2\% \text{ aromatics }; \text{ REACH No. : } 01\text{-}2119456810\text{-}40\text{-}xxxxx}; \text{ EC No. : } 920\text{-}901\text{-}0; \text{ CAS No. : } 10\text{-}2119456810\text{-}40\text{-}xxxx}; \text{ EC No. : } 10\text{-}2119456810\text{-}40\text{-}xxxxx}; \text{ EC No. : } 10\text{-}2119456810\text{-}40\text{-}xxxxx$ 

(246538-78-3

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

Trade name: Lithofin NanoTOP

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

Classification 1272/2008 [CLP]: Asp. Tox. 1; H304 EUH066

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

Weight fraction :  $\geq 1 - < 5 \%$ 

Classification 1272/2008 [CLP]: Substance with a community workplace exposure limit

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

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# **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 No

## 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

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

Protect from frost No

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# **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-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; CAS No.: (64742-49-0)

Limit value type (country of origin): TRGS 900 ( D )
Limit value: 300 mg/m³
Peak limitation: 2(II)

Version:

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

Limit value type (country of origin) : KZG ( CH )

Limit value:  $150 \text{ ppm} / 720 \text{ mg/m}^3$ 

Remark : SSc

Version:

Limit value type (country of origin): MAK (CH)

Limit value: 50 ppm / 240 mg/m<sup>3</sup>

Remark: SSc

Version:

Limit value type (country of origin) : TRGS 900 ( D ) Limit value : 62 ppm / 300 mg/m<sup>3</sup>

 $\begin{array}{lll} \text{Peak limitation:} & 2 \text{(I)} \\ \text{Remark:} & \text{Y} \\ \text{Version:} & 02.07.2021 \\ \text{Limit value type (country of origin):} & \text{STEL ( EC )} \\ \end{array}$ 

 $\label{eq:limit_value} \mbox{Limit value}: \mbox{150 ppm} \mbox{/} 723 \mbox{ mg/m}^3$ 

 $\label{eq:Version:20.06.2019} \mbox{Limit value type (country of origin)}: \mbox{ TWA ( EC )}$ 

Limit value: 50 ppm / 241 mg/m<sup>3</sup>

Version: 20.06.2019

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics; CAS No.: (64741-65-7)

 $\begin{array}{ll} \mbox{Limit value type (country of origin)}: & \mbox{TRGS 900 ( D )} \\ \mbox{Limit value}: & \mbox{600 mg/m}^3 \end{array}$ 

Version:

Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics; CAS No.: (246538-78-3

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

Version:

 $\hbox{(2-METHOXYMETHYLETHOXY)PROPANOL~; CAS~No.: $34590-94-8$}$ 

Limit value type (country of origin) : KZG ( CH )

Limit value :  $50 \text{ ppm} / 300 \text{ mg/m}^3$ 

Version:

Limit value type (country of origin): MAK ( CH )

Limit value: 50 ppm / 300 mg/m<sup>3</sup>

Version:

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

Limit value: 50 ppm / 310 mg/m<sup>3</sup>

 $\begin{array}{ll} \mbox{Peak limitation:} & \mbox{1(I)} \\ \mbox{Version:} & \mbox{02.07.2021} \end{array}$ 

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

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**Print date :** 12.09.2022

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

Limit value: 50 ppm / 308 mg/m<sup>3</sup>

Remark: Skin
Version: 20.06.2019

## **DNEL-/PNEC-values**

# **DNEL/DMEL**

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; CAS No.: (64742-49-0)

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 (systemic)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 102,3 mg/m³

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 859,7 mg/m³

Limit value type : DNEL worker (systemic)

 $\begin{array}{lll} \mbox{Exposure route:} & \mbox{Inhalation} \\ \mbox{Exposure frequency:} & \mbox{Long-term} \\ \mbox{Limit value:} & \mbox{480 mg/m}^{3} \\ \end{array}$ 

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 960 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

Limit value type : PNEC (Sediment, marine water)

Limit value : 0,0981 mg/kg

Limit value type : PNEC (Sewage treatment plant)

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

Recommended glove articles: Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or

comparable articles from other companies.

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

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

Combination filtering device Half-face mask ABEK-P1

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: °C (1013 hPa) -18 Initial boiling point and boiling ( 1013 hPa ) 135 ٥C approx. range:

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Decomposition temperature :	( 1013 hPa )		not determined		
Flash point :		approx.	24	°C	closed cup (EN ISO 3679)
Auto-ignition temperature :			not determined		(
Sustaining combustion			Yes		UN Test L2:Sustained combustibility test
Lower explosion limit : Upper explosion limit : Vapour pressure :	( 50 °C )	<	not determined not determined 3000	hPa	,
• •	,				Pyknometer (DIN EN
Density:	( 20 °C )		0,82	g/cm³	ISO 2811-1)
Solvent separation test :	( 20 °C )	<	3	%	Test L1: Solvent separation test (UN)
Water solubility pH : log P O/W :	( 20 °C )		hydrolysed not applicable not determined		DIN 19268 (Mixture)
Flow time :	( 23 °C )	approx.	11	S	ISO cup 4 mm (DIN EN ISO 2431)
Odour threshold : Vapourisation rate :			not determined not determined		,
VOC content-EC			80,5	Weight-%	*
VOC content-EC			658	g/l	*
VOC-France			A+		Décret no 2011-321 du 23 mars 2011

(\* VOC-EC = "Volatile organic compound (VOC)" means any organic compound having an initial boiling point less than or equal to  $250^{\circ}$ 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-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS: 64742-49-0)

Lower explosion limit (Vol-%): 0,8 Upper explosion limit (Vol-%): 6,0

log P O/W: 4,0 - 5,7

Data apply to the main component: ETHYL ACETATE (CAS: 141-78-6) Lower explosion limit (Vol-%): 2,0 Upper explosion limit (Vol-%): 12,8

log P O/W: 0,68

# **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**

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# 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-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS

No.: (64742-49-0))

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.: (64741-65-7)

)

Exposure route: Oral
Effective dose: > 5000 mg/kg

Parameter: LD50 ( Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics; CAS No.: (246538-78-3

)

Exposure route: Oral
Effective dose: > 5000 mg/kg

Effective dose: > 5000 mg

Acute dermal toxicity

Parameter: LD50 ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; CAS

No.: (64742-49-0))

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.: (64741-65-7)

)

Exposure route : Dermal

Effective dose : > 5000 mg/kg

Parameter: LD50 ( Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics; CAS No. : (246538-78-3

)

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: 23,4 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.

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# 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**

Harmful to aquatic life with long lasting effects.

## Chronic (long-term) fish toxicity

Parameter: NOEC ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; CAS

No.: (64742-49-0))

Species : Fish Effective dose : > 0,1 - 1 mg/l

Parameter: NOEC ( Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics; CAS No. : (64741-65-7)

Species: Fish

Effective dose : Fish Fish Fish Fish Fish

Parameter: NOEC ( Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics; CAS No. : (246538-78-3

Species: Fish
Effective dose: > 0,1 - 1 mg/l

# Chronic (long-term) toxicity to aquatic invertebrate

Parameter: NOEC ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; CAS

No.: (64742-49-0))

Species : Daphnia Effective dose : > 0,1 - 1 mg/l

Parameter: NOEC (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics; CAS No.: (64741-65-7)

)

Species: Daphnia
Effective dose: > 0,1 - 1 mg/l

Parameter: NOEC ( Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics; CAS No. : (246538-78-3

)

Species : Daphnia Effective dose : > 0,1 - 1 mg/l

## Acute (short-term) toxicity to algae and cyanobacteria

Parameter: EC50 ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; CAS

No.: (64742-49-0))

Species: Daphnia
Effective dose: > 10 - 100 mg/l

Parameter: EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

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Species: Daphnia
Effective dose: 44 mg/l
Exposure time: 48 h

Parameter: EC50 ( Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics; CAS No.: (64741-65-7)

)

Species: Daphnia Effective dose: > 100 mg/l

Parameter: EC50 ( Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics; CAS No.: (246538-78-3

)

Species: Daphnia
Effective dose: > 100 mg/l

# 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**

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#### 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 | · E 1
Hazard label(s): 3

Sea transport (IMDG)

 Class(es):
 3

 EmS-No.:
 F-E / S-E

 Special provisions:
 LQ 5 | · 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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not required.

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations/legislation specific for the substance or mixture $^{15.1}$

# **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

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

Restrictions of occupation

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Observe restrictions to employment for juvenils 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)

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) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the export and import of hazardous chemicals [PIC-Regulation]: Not listed/not relevant.

REGULATION (EU) No 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the marketing and use of explosives precursors: Not listed/not relevant.

# Regulation (EC) No. 1005/2009 on substances that lead to the depletion of 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): -

#### **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: 2 (Obviously hazardous to water)

#### Other regulations, restrictions and prohibition regulations

#### **Switzerland**

# **VOCV-Regulation**

Maximum VOC content (Switzerland): 80,5 Weight-% according to VOCV

#### **Austria**

# Regulation on Flammable Liquids - VbF

VbF-Class: NU

# 15.2 Chemical Safety Assessment

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

#### 15.3 Additional information

HSNO Approval: HSR002662 Surface Coatings and Colourants (Flammable) Group Standard 2017

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics/Naphtha (petroleum), hydrotreated light

CAS-No.: 64742-49-0

Is found on the following regulatory lists: New Zealand Inventory of Chemicals (NZIoC)

ETHYL ACETATE/Acetic acid ethyl ester

CAS-No.: 141-78-6

Is found on the following regulatory lists: New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES): TWA: 200 ppm / 720 mg/m³; STEL: -

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics/Naphtha (petroleum), hydrotreated heavy

CAS-No.: 64742-48-9

Is found on the following regulatory lists: New Zealand Inventory of Chemicals (NZIoC)

N-BUTYL ACETATE/Acetic acid, butyl ester

CAS-No.: 123-86-4

Is found on the following regulatory lists: New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES): TWA: 150 ppm / 713 mg/m³; STEL: 200 ppm / 950 mg/m³

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

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# **SECTION 16: Other information**

# 16.1 Indication of changes

07. Hints on joint storage - Storage class

## 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

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

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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)

# 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.

H412 Harmful to aquatic life with long lasting effects.
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.

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