

# **Safety Data Sheet**

according to UK REACH Regulation

#### 100 Multifunktionsöl 400ml ALL

Revision date: 10.03.2023 Product code: 1106955 Page 1 of 19

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

#### 1.1. Product identifier

100 Multifunktionsöl 400ml ALL

UFI: K4T4-A0PM-7002-U32V

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

#### Use of the substance/mixture

Lubricant

## 1.3. Details of the supplier of the safety data sheet

Company name: TUNAP GmbH & Co. KG
Street: Buergermeister-Seidl-Strasse 2
Place: D-82515 Wolfratshausen

Telephone: +49 (0) 8171/1600-0 Telefax: +49 (0) 8171/1600-40

E-mail: sdb@tunap.com Internet: www.tunap.com

**1.4. Emergency telephone** 111 NHS (National Health Service)

number:

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# **GB CLP Regulation**

Aerosol 1; H222-H229 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H336 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## **GB CLP Regulation**

#### Hazard components for labelling

 $\label{thm:continuous} \mbox{Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5\% n-hexane} \mbox{Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2\% aromatics}$ 

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Polysulfides, di-tert-dodecyl

Signal word: Danger

Pictograms:





#### **Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.



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## **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P304+P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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

## 3.2. Mixtures



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## Relevant ingredients

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (GB CLP Regulation)	
75-28-5	isobutane	50 - < 100 %
	200-857-2 601-004-00-0 01-2119485395-27	
	Flam. Gas 1, Press. Gas (Liq.); H220 H280	
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	5 - < 10 %
	921-024-6 01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics	5 - < 10 %
	927-241-2 01-2119471843-32	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 3; H226 H336 H304 H412 EUH066	
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	5 - < 10 %
	927-510-4 01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
74-98-6	propane	5 - < 10 %
	200-827-9 601-003-00-5 01-2119486944-21	
	Flam. Gas 1, Press. Gas (Liq.); H220 H280	
106-97-8	butane	1 - < 3 %
	203-448-7 601-004-00-0 01-2119474691-32	
	Flam. Gas 1, Press. Gas (Liq.); H220 H280	
1474044-79- 5	Calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	0.1 - < 1 %
	939-717-7 01-2119980985-16	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
68425-15-0	Polysulfides, di-tert-dodecyl	0.1 - < 1 %
	270-335-7 01-2119540516-41	
	Skin Sens. 1B; H317	
68602-85-7	Hydrocarbon waxes (petroleum), oxidized, Me esters	0.1 - < 1 %
	271-626-1 01-2120749916-39	
	Eye Irrit. 2; H319	
68784-12-3	2,5-Furandione, dihydro-, mono-C15-20-alkenyl derivs.	0.1 - < 1 %
	272-221-2 01-2119533117-46	
	Skin Sens. 1B; H317	
	Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate	0.1 - < 1 %
	947-946-9 01-2120772600-59	
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 4; H315 H317 H413	

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
	921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	5 - < 10 %
	inhalation: LC 5000 mg/kg	50 = > 25,2 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = >	
	927-241-2	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics	5 - < 10 %
	inhalation: LC mg/kg	50 = > 4951 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000	
64742-49-0	927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	5 - < 10 %
	inhalation: LC 5500 mg/kg	50 = > 23,3 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 =	
106-97-8	203-448-7	butane	1 - < 3 %
	inhalation: LC	50 = 658 ppm (gases)	
1474044-79- 5	939-717-7	Calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	0.1 - < 1 %
	inhalation: LC	50 = > 18 mg/l (vapours)	
68425-15-0	270-335-7	Polysulfides, di-tert-dodecyl	0.1 - < 1 %
	inhalation: LC mg/kg	50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000	
68602-85-7	271-626-1	Hydrocarbon waxes (petroleum), oxidized, Me esters	0.1 - < 1 %
	oral: LD50 = >	2000 mg/kg	
68784-12-3	272-221-2	2,5-Furandione, dihydro-, mono-C15-20-alkenyl derivs.	0.1 - < 1 %
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	

## Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons.

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

## **General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

#### 4.2. Most important symptoms and effects, both acute and delayed

Headache, nausea, dizziness, fatigue, skin irritation

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.



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#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

## Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

#### Unsuitable extinguishing media

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

#### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Danger of bursting container.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear personal protection equipment.

#### For non-emergency personnel

First aider: Pay attention to self-protection!

#### For emergency responders

Fight fire with normal precautions from a reasonable distance.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

#### 6.3. Methods and material for containment and cleaning up

#### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental 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

#### Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point



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of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

## Advice on general occupational hygiene

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

#### Further information on handling

Avoid contact with skin and eyes.

## 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

## Hints on joint storage

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

#### Further information on storage conditions

Protect from frost. Protect from direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

#### 7.3. Specific end use(s)

Lubricant

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL



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## **DNEL/DMEL values**

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CAS No	Substance	<u> </u>	İ	ļ
DNEL type		Exposure route	Effect	Value
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <	5% n-hexane		
Worker DNEL,	long-term	inhalation	systemic	2035 mg/m³
Worker DNEL,	long-term	dermal	systemic	773 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	608 mg/m <sup>3</sup>
Consumer DN	EL, long-term	dermal	systemic	699 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	699 mg/kg bw/day
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics			
Worker DNEL,	long-term	inhalation	systemic	2085 mg/m³
Worker DNEL,	long-term	dermal	systemic	300 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	447 mg/m³
Consumer DN	EL, long-term	dermal	systemic	149 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	149 mg/kg bw/day
1474044-79- 5	Calcium bis(di C8-C10, branched, C9 rich, alkylnaphtha	lenesulphonate)		
Worker DNEL,	long-term	inhalation	systemic	5 mg/m³
Worker DNEL,	long-term	dermal	systemic	10 mg/kg bw/day
68602-85-7	Hydrocarbon waxes (petroleum), oxidized, Me esters			
Worker DNEL,	long-term	inhalation	systemic	1000 mg/m³
Worker DNEL,	long-term	dermal	systemic	1000 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	1000 mg/m³
Consumer DN	EL, long-term	dermal	systemic	1000 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	1000 mg/kg bw/day
68784-12-3	2,5-Furandione, dihydro-, mono-C15-20-alkenyl derivs.			
Worker DNEL,	long-term	dermal	systemic	1 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	0,5 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,5 mg/kg bw/day
	Molybdenum trioxide, reaction products with bis[O,O-bis	s(2-ethylhexyl)] hydroge	n dithiophosphate	
Worker DNEL,		inhalation	systemic	4,93 mg/m³
Worker DNEL,	long-term	dermal	systemic	1,4 mg/kg bw/day
Consumer DN		inhalation	systemic	0,87 mg/m³
Consumer DN		dermal	systemic	0,5 mg/kg bw/day
Consumer DN		oral	systemic	0,5 mg/kg bw/day
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#### **PNEC values**

CAS No	Substance	
Environmental	compartment	Value
1474044-79- 5	Calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	
Freshwater		0,004 mg/l
Freshwater (in	termittent releases)	0,0027 mg/l
Marine water		0,0004 mg/l
Freshwater se	diment	69 mg/kg
Marine sedime	ent	6,9 mg/kg
Secondary poi	soning	22,2 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	10 mg/l
Soil		13,9 mg/kg
68602-85-7	Hydrocarbon waxes (petroleum), oxidized, Me esters	
Freshwater		100 mg/l
Marine water		10 mg/l
Freshwater se	diment	100 mg/kg
Marine sedime	ent	10 mg/kg
Secondary poi	soning	100 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	10 mg/l
Soil		100 mg/kg
68784-12-3	2,5-Furandione, dihydro-, mono-C15-20-alkenyl derivs.	
Freshwater		0,01 mg/l
Freshwater (in	termittent releases)	0,1 mg/l
Marine water		0,001 mg/l
Micro-organisr	ns in sewage treatment plants (STP)	8 mg/l
Soil		19,2 mg/kg

#### Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long-term exposure:

d before next shift

blood (B)

Urine (U)

## 8.2. Exposure controls

## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

## Individual protection measures, such as personal protective equipment

# Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

EN 166

## **Hand protection**

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals



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must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min

Thickness of the glove material 0,45 mm

**EN ISO 374** 

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)...

Filtering device with filter or ventilator filtering device of type: AX

Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

#### **Environmental exposure controls**

Observe legal regulations and provisions.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Aerosol Physical state:

Colour: greenish-brown, milky

Odour: characteristic

Test method

Print date: 27.11.2023

not determined Melting point/freezing point: -40 °C Boiling point or initial boiling point and

boiling range:

not applicable Flammability:

> not applicable 0,6 vol. %

Lower explosion limits: 9.4 vol. % Upper explosion limits: < 0 °C Flash point: Decomposition temperature: not determined

**DIN 19268** pH-Value (at 20 °C):

Viscosity / kinematic: < 20,5 mm<sup>2</sup>/s

(at 40 °C)

The study does not need to be conducted Water solubility: because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: not determined

0,77 g/cm3 DIN 51757 Density (at 20 °C):

not determined Relative vapour density:

#### 9.2. Other information

# Information with regard to physical hazard classes

Explosive properties

Heating may cause an explosion.

Self-ignition temperature

not applicable Solid: not applicable Gas:



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Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Evaporation rate: not determined Solid content: not determined

#### **Further Information**

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

The product is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

#### 10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

# 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

#### **Further information**

Do not mix with other chemicals.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

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

## **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name					
07.10 1.10	Exposure route	Dose	Species	Source	Method	
	·		•	Oduce	Metriod	
	Hydrocarbons, C6-C7, n-	1				
	oral	LD50 > 5000 mg/kg	Rat			
	dermal	LD50 > 2800 - 3100 mg/kg	Rat			
	inhalation (4 h) vapour	LC50 > 25,2 mg/l	Rat			
	Hydrocarbons, C9-C10, r	-alkanes, isoalkanes, cy	clenes, <2% aromatics			
	oral	LD50 > 5000 mg/kg	Rat			
	dermal	LD50 > 5000 mg/kg	Rabbit			
	inhalation (4 h) vapour	LC50 > 4951 mg/l	Rat			
64742-49-0	Hydrocarbons, C7, n-alka					
	oral	LD50 5500 mg/kg	Rat			
	dermal	LD50 > 2800 - 3100 mg/kg	Rat	Study report (1977)	The acute toxicity of SBP 100/140 was de	
	inhalation (4 h) vapour	LC50 > 23,3 mg/l	Rat	Study report (1988)	OECD Guideline 403	
106-97-8	butane					
	inhalation (4 h) gas	LC50 658 ppm	Rat	GESTIS		
1474044-79- 5	Calcium bis(di C8-C10, b	ranched, C9 rich, alkylna	aphthalenesulphonate)			
	inhalation (1 h) vapour	LC50 > 18 mg/l	Rat	Study report (1978)	other: FHSLA, CFR, Title 21 J para. 191.	
68425-15-0	Polysulfides, di-tert-dode	cyl				
	oral	LD50 >2000 mg/kg	Rat			
	dermal	LD50 >2000 mg/kg	Rabbit			
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat			
68602-85-7	Hydrocarbon waxes (petr		ers	•		
	oral	LD50 > 2000 mg/kg	Rat	Study report (2017)	OECD Guideline 420	
68784-12-3	2,5-Furandione, dihydro-,		erivs.	•	•	
	oral	LD50 > 2000 mg/kg	Rat	Study report (2009)	OECD Guideline 423	
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2009)	OECD Guideline 402	

# Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.



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## Sensitising effects

May cause an allergic skin reaction. (Polysulfides, di-tert-dodecyl; 2,5-Furandione, dihydro-, mono-C15-20-alkenyl derivs.; Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

#### STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane; Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

## STOT-repeated exposure

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

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

## Information on likely routes of exposure

Ingestion, Inhalation, Skin contact, Eye contact.

Reference to other sections: 2.1, 4.2,

#### Specific effects in experiment on an animal

No information available.

#### 11.2. Information on other hazards

# **Endocrine disrupting properties**

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

#### Other information

No information available.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name										
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method				
75-28-5	isobutane										
	Acute fish toxicity	LC50 mg/l	91,42	96 h	Fish, no other information	United States Environmental Protection A	The Ecosar class program has been develo				
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	Algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.				
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.				
	Hydrocarbons, C6-C7, n-a	alkanes, iso	alkanes, cyc	lics, < 5%	6 n-hexane						
	Acute fish toxicity	LC50 mg/l	> 1-10	96 h	Pimephales promelas						
	Acute algae toxicity	ErC50 mg/l	10 - 30	<b>7</b> 2 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201				
	Acute crustacea toxicity	EC50 mg/l	> 1-10	48 h	Daphnia magna						
	Fish toxicity	NOEC mg/l	2,045	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)					
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211				
	Hydrocarbons, C9-C10, n	ı-alkanes, is	oalkanes, cy	clenes, <	2% aromatics						
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Oncorhynchus mykiss (Rainbow trout)						
	Acute algae toxicity	ErC50 mg/l	>1000	<b>72</b> h	Pseudokirchneriella subcapitata						
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna						
64742-49-0	Hydrocarbons, C7, n-alka	nes, isoalka	anes, cyclics								
	Acute fish toxicity	LL50 mg/l	> 13,4	96 h	Oncorhynchus mykiss	Study report (2004)	OECD Guideline 203				
	Acute algae toxicity	ErC50	12 mg/l	72 h	Pseudokirchneriella subcapitata	SIDS Initial Assessment Report For SIAM	OECD Guideline 201				
	Acute crustacea toxicity	EC50 mg/l	>1 - 10	48 h	Daphnia magna						
	Fish toxicity	NOEC mg/l	1,534	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)					
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211				
74-98-6	propane										
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish, no other information	United States Environmental Protection A	The Ecosar class program has been develo				



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	Acute algae toxicity	ErC50 mg/l	19,37	96 h	Algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
106-97-8	butane						
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish, no other information	United States Environmental Protection A	The Ecosar class program has been develo
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	Algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
1474044-79 -5	Calcium bis(di C8-C10, b	ranched, C9	rich, alkylna	phthalen	esulphonate)		
	Acute crustacea toxicity	EC50 mg/l	> 0,27	48 h	Daphnia magna	Study report (2013)	OECD Guideline 202
	Crustacea toxicity	NOEC	4,6 mg/l	21 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211
68425-15-0	Polysulfides, di-tert-doded	cyl					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna (Big water flea)		
68602-85-7	Hydrocarbon waxes (petr	oleum), oxid	lized, Me este	ers		_	
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Oncorhynchus mykiss	REACh Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	> 100	48 h	Daphnia magna	Study report (2017)	OECD Guideline 202
	Acute bacteria toxicity	EC50 mg/l ( )	> 100	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier	OECD Guideline 209
68784-12-3	2,5-Furandione, dihydro-,	mono-C15-	20-alkenyl de	erivs.			
	Acute fish toxicity	LC50 mg/l	> 10	96 h	Leuciscus idus	REACh Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	85,1	72 h		REACh Registration Dossier	OECD Guideline 201



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Acute algae toxicity	ErC50 mg/l	> 100		-	OECD Guideline 201
Acute bacteria toxicity	EC50 mg/l ( )	> 1000	3	-	OECD Guideline 209

## 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation	-					
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane						
	OECD Guideline 301 F	98%	28				
	Easily biodegradable (concerning to the criteria of the OECD)						

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	1,09
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	3,4 - 5,2
74-98-6	propane	1,09
106-97-8	butane	1,09
1474044-79-5	Calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	> 6,6
68602-85-7	Hydrocarbon waxes (petroleum), oxidized, Me esters	> 10
68784-12-3	2,5-Furandione, dihydro-, mono-C15-20-alkenyl derivs.	6,74

#### **BCF**

<del></del> -				
CAS No	Chemical name	BCF	Species	Source
1474044-79-5	Calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	3,16	fish	Study report (2013)
68784-12-3	2,5-Furandione, dihydro-, mono-C15-20-alkenyl derivs.	63,79	fish	Study report (2014)

#### 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

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

The product has not been tested.

## 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

No information available.

## **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods



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#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; gases in pressure containers (including halons) containing hazardous substances;

hazardous waste

#### List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; gases in pressure containers (including halons) containing hazardous substances;

hazardous waste

## List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal

packaging waste); metallic packaging

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1

Classification code: 2.1

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Tunnel restriction code: D

Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1Classification code:5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L Excepted quantity: E0

Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1Marine pollutant:no

Special Provisions: 63, 190, 277, 327, 344, 381,959

Limited quantity: 1000 mL Excepted quantity: E0 EmS: F-D, S-U

## Air transport (ICAO-TI/IATA-DGR)



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**14.1. UN number or ID number:** UN 1950

**14.2. UN proper shipping name:** AEROSOLS, flammable

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1

Special Provisions: A145 A167 A802

Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0

IATA-packing instructions - Passenger:203IATA-max. quantity - Passenger:75 kgIATA-packing instructions - Cargo:203IATA-max. quantity - Cargo:150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **EU regulatory information**

Restrictions on use (REACH, annex XVII): Entry 3, Entry 28, Entry 40, Entry 75

Directive 2010/75/EU on industrial No information available.

emissions:

Directive 2004/42/EC on VOC in paints

and varnishes:

No information available.

Information according to Directive

2012/18/EU (SEVESO III):

P3a FLAMMABLE AEROSOLS

Additional information

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

Aerosol Directive (75/324/)

**National regulatory information** 

Water hazard class (D): 2 - obviously hazardous to water

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 1,2,9,11,15.



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#### Abbreviations and acronyms

Flam. Gas: Flammable gases

Aerosol: Aerosols

Press. Gas (Liq.): Liquefied gas Flam. Liq: Flammable liquids Asp. Tox: Aspiration hazard Skin Irrit: Skin irritation Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Chronic: Chronic aquatic hazard

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL (UK): Workplace Exposure Limits TWA (EC): Time-Weighted Average

ATE: Acute Toxicity Estimate

STEL (EC) Short Term Exposure Limit

LC50: Lethal Concentration

EC50: half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate

# Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure		
Aerosol 1; H222-H229	On basis of test data		
Asp. Tox. 1; H304	Calculation method		
Skin Irrit. 2; H315	Bridging principle "Aerosols"		
Skin Sens. 1; H317			
STOT SE 3; H336	Bridging principle "Aerosols"		
Aquatic Chronic 3; H412	Calculation method		

#### Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.



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

#### **Further Information**

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.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)