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

1.1 Product identifier

Trade name : MOBIHEL PRIMER

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

Use of the Sub: Coatings and paints, thinners, paint removers

stance/Mixture

Recommended restrictions

on use

Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : KANSAI HELIOS Slovenija d.o.o.

Količevo 65 1230 Domžale Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383

productsafety@kansai-helios.si

1.4 Emergency telephone number

Call 999 (or 112) for emergency medical attention

professionals only: National Poison Information Service (NPIS) 24h national number 0844 892

0111

consumer: National Health Service (NHS) 24h national number, England & Scotland 111

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

# 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

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Specific target organ toxicity - single exposure, Category 3, Respiratory system

Specific target organ toxicity - single exposure, Category 3, Central nervous

H336: May cause drowsiness or dizziness.

system

Long-term (chronic) aquatic hazard, Cat- H412: Harm

egory 3

H412: Harmful to aquatic life with long lasting ef-

fects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. P261 Avoid breathing mist or vapours.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

2-methylpropan-1-ol propan-2-ol butan-1-ol

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#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
2-methylpropan-1-ol	78-83-1	Flam. Liq. 3; H226	>= 30 - < 50
		Skin Irrit. 2; H315	
	201-148-0	Eye Dam. 1; H318	
	603-108-00-1	STOT SE 3; H336	
	01-2119484609-23	(Central nervous	
		system)	
		STOT SE 3; H335	
		(Respiratory sys-	
		tem)	
propan-2-ol	67-63-0	Flam. Liq. 2; H225	>= 10 - < 20
		Eye Irrit. 2; H319	
	200-661-7	STOT SE 3; H336	
	603-117-00-0	(Central nervous	
	01-2119457558-25	system)	
1-butanol	71-36-3	Flam. Liq. 3; H226	>= 3 - < 10
		Acute Tox. 4; H302	
	200-751-6	Skin Irrit. 2; H315	
	603-004-00-6	Eye Dam. 1; H318	
	01-2119484630-38	STOT SE 3; H336	
		(Central nervous	
		system)	
		STOT SE 3; H335	
		(Respiratory sys- tem)	
Urea P/W	68002-18-6	Aquatic Chronic 4;	>= 1 - < 2,5
Olea i /vv	00002-10-0	H413	/= 1 - < 2,5
		11410	
zinc oxide	1314-13-2	Aquatic Acute 1;	>= 0,25 - < 1
		H400	·
	215-222-5	Aquatic Chronic 1;	
	030-013-00-7	H410	
	01-2119463881-32		
phenol, pure	108-95-2	Acute Tox. 3; H301	>= 0,25 - < 1
		Acute Tox. 3; H331	
	203-632-7	Acute Tox. 3; H311	
	604-001-00-2	Skin Corr. 1B;	
	01-2119471329-32	H314	

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		Eye Dam. 1; H318 Muta. 2; H341 STOT RE 2; H373 Aquatic Chronic 2; H411 ——————————————————————————————————	
zinc 5-nitroisophthalate	60580-61-2	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0,1 - < 0,25
formaldehyde	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Carc. 1B; H350 ———— specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 5 - < 25 % Eye Irrit. 2; H319 5 - < 25 % STOT SE 3; H335 >= 5 % Skin Sens. 1; H317 >= 0,2 %	< 0,1
Substances with a workplace exposure			
iron hydroxide oxide	20344-49-4		>= 1 - < 10
	243-746-4 01-2119457554-33		
talc	14807-96-6 238-877-9		>= 1 - < 10

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	01-2120140278-58	
chlorite-group minerals	1318-59-8	>= 1 - < 10
	215-285-9	
titanium dioxide	13463-67-7	>= 1 - < 10
	236-675-5	
	01-2119489379-17	

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

#### 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

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

Risks : Causes skin irritation.

Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.

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

: Treat symptomatically. Treatment

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

5.1 Extinguishing media

Suitable extinguishing media Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

ucts

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

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

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

Personal precautions Use personal protective equipment.

Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

6.2 Environmental precautions

**Environmental precautions** Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

# 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials

must comply with the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data

sheet.

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Consult the technical guidelines for the use of this substance/mixture.

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

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-methylpropan-1- ol	78-83-1	TWA	50 ppm 154 mg/m3	GB EH40
		STEL	75 ppm 231 mg/m3	GB EH40
propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40
		STEL	500 ppm 1.250 mg/m3	GB EH40
iron hydroxide oxide	20344-49-4	TWA	1 mg/m3 (Iron)	GB EH40
		STEL	2 mg/m3 (Iron)	GB EH40
		TWA (Fumes)	5 mg/m3 (Iron)	GB EH40
		STEL (Fumes)	10 mg/m3 (Iron)	GB EH40
butan-1-ol	71-36-3	STEL	50 ppm 154 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
Talc	14807-96-6	TWA (Respirable dust)	1 mg/m3	GB EH40
		TWA (Respirable dust)	0,1 mg/m3	2004/37/EC
	Further inforn	nation: Carcinogens	or mutagens	
titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	4 mg/m3	GB EH40
phenol	108-95-2	TWÁ	2 ppm 7,8 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	4 ppm 16 mg/m3	GB EH40
	Further inforn	nation: Can be absor	bed through the skin. The as	ssigned sub-

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1	stances are	those for which there	are concerns that dermal abs	sorption will	
	lead to syste		are comeanie that comiar ab	30.pt.0	
		TWA	2 ppm 8 mg/m3	2009/161/EU	
		Further information: Identifies the possibility of significant uptake through skin, Indicative			
		STEL	4 ppm 16 mg/m3	2009/161/EU	
		Further information: Identifies the possibility of significant uptake through the skin, Indicative			
formaldehyde	50-00-0	TWA	2 ppm 2,5 mg/m3	GB EH40	
	Further information: Capable of causing cancer and/or heritable genetic age.			e genetic dam-	
		STEL	2 ppm 2,5 mg/m3	GB EH40	
	Further infor age.	mation: Capable of ca	ausing cancer and/or heritable	e genetic dam-	
		TWA	0,3 ppm 0,37 mg/m3	2004/37/EC	
	Further infor	Further information: Dermal sensitisation, Carcinogens or mutagens			
		STEL	0,6 ppm 0,74 mg/m3	2004/37/EC	
	Further infor	Further information: Dermal sensitisation, Carcinogens or mutagens			

# **Derived No Effect Level (DNEL):**

Substance name	End Use	Exposure routes	Potential health effects	Value
propan-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3
	Consumers	Inhalation	Long-term systemic effects	89 mg/m3
	Workers	Dermal	Long-term systemic effects	888 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	319 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	26 mg/kg bw/day
butan-1-ol	Workers	Inhalation	Long-term local ef- fects	310 mg/m3
	Consumers	Inhalation	Long-term systemic effects	55,357 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	155 mg/m3
	Consumers	Dermal	Long-term systemic effects	3,125 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1,562 mg/kg bw/day
Talc	Workers	Inhalation	Acute systemic effects	2,16 mg/m3
	Workers	Inhalation	Acute local effects	3,6 mg/m3

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Consumers Inhalation Acute systemic ef-1,08 mg/m3 fects Acute local effects Consumers Inhalation 1,8 mg/m3 Consumers Dermal Long-term local ef-2,27 mg/cm2 fects Workers Dermal Long-term local ef-4,54 mg/cm2 fects Consumers Oral Long-term systemic 160 mg/kg bw/day effects 160 mg/kg Consumers Oral Acute systemic efbw/day fects Workers Dermal Long-term systemic 43,2 mg/kg bw/day effects 21,6 mg/kg Consumers Dermal Long-term systemic effects bw/day titanium dioxide Workers Inhalation Long-term local ef-10 mg/m3 fects Long-term systemic 700 mg/kg Consumers Oral effects bw/day zinc oxide Workers Inhalation Long-term systemic 5 mg/m3 effects Workers Inhalation Long-term local ef-0,5 mg/m3 fects Consumers Inhalation Long-term systemic 2,5 mg/m3 effects Workers Dermal Long-term systemic 83 mg/kg effects bw/day Consumers Dermal Long-term systemic 83 mg/kg effects bw/day Long-term systemic 0,83 mg/kg Consumers Oral effects bw/day Workers Long-term systemic 8 mg/m3 phenol Inhalation effects Workers Inhalation Acute local effects 16 mg/m3 Workers Dermal Long-term systemic 1,23 mg/kg bw/day effects Long-term systemic 1,32 mg/m3 Consumers Inhalation effects Dermal Long-term systemic 0,4 mg/kg Consumers effects bw/day 0,4 mg/kg Long-term systemic

#### **Predicted No Effect Concentration (PNEC):**

Consumers

	,	
Substance name	Environmental Compartment	Value
2-methylpropan-1-ol	Soil	0,0765 mg/kg dry
		weight (d.w.)
	Marine water	0,04 mg/l
	Fresh water	0,4 mg/l
	Marine sediment	0,156 mg/kg dry
		weight (d.w.)

effects

bw/day

Oral

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	Fresh water sediment	1,56 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Intermittent use/release	11 mg/l
propan-2-ol	Soil	28 mg/kg
1 1	Marine water	140,9 mg/l
	Fresh water	140,9 mg/l
	Fresh water sediment	552 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	2251 mg/l
	Intermittent use/release	140,9 mg/l
butan-1-ol	Soil	0,0166 mg/kg dry
Dutaii i di		weight (d.w.)
	Marine water	0,0082 mg/l
	Fresh water	0,082 mg/l
	Marine sediment	0,0324 mg/kg dry
	Warmo Sountent	weight (d.w.)
	Fresh water sediment	0,324 mg/kg dry
	1 real water seament	weight (d.w.)
	Sewage treatment plant	2476 mg/l
	Intermittent use/release	2,25 mg/l
Talc	Marine water	141,26 mg/l
Taic	Fresh water	597,97 mg/l
	Marine sediment	3,13 mg/kg dry
	Marine sediment	
	Fresh water sediment	weight (d.w.)
	Fresh water sediment	31,33 mg/kg dry
	Intermittent use/release	weight (d.w.)
Alto prives elipsolelo		597,97 mg/l
titanium dioxide	Soil	100 mg/kg dry
	Marina water	weight (d.w.)
	Marine water	0,0184 mg/l
	Fresh water	0,184 mg/l
	Marine sediment	100 mg/kg dry
	Forth of the Control	weight (d.w.)
	Fresh water sediment	1000 mg/kg dry
	0	weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0,193 mg/l
zinc oxide	Soil	35,6 mg/kg dry
		weight (d.w.)
	Marine water	0,0061 mg/l
	Fresh water	0,0206 mg/l
	Marine sediment	56,5 mg/kg dry
		weight (d.w.)
	Fresh water sediment	117,8 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	0,1 mg/l
phenol	Marine water	0,77 mg/l
	Fresh water	0,0077 mg/l
	Marine sediment	0,00915 mg/kg
		dry weight (d.w.)

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	Marine sediment	0,136 mg/kg dry weight (d.w.)
	Fresh water sediment	0,0915 mg/kg dry weight (d.w.)
	Sewage treatment plant	2,1 mg/l
	Intermittent use/release	0,031 mg/l
zinc 5-nitroisophthalate	Fresh water	0,0206 - 0,0808 mg/l
	Marine water	0,0061 - 0,0239 mg/l
	Sewage treatment plant	0,100 - 0,3922 mg/l
	Fresh water sediment	117,8 - 462 mg/kg dry weight (d.w.)
	Marine sediment	56,5 - 221 mg/kg dry weight (d.w.)
	Soil	56,5 - 221 mg/kg dry weight (d.w.)

#### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Equipment should conform to EN 166

Eye wash bottle with pure water Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); DIN EN374

butyl-rubber (> 0,6 mm; < 240 min); DIN EN374 | Viton® (> 0,6 mm; < 240 min); DIN EN374 | PE laminate (> 0,1 mm; < 240 min); DIN EN374 |

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of

cuts, abrasion, and the contact time.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ven-

tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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Filter type : Combined particulates and organic vapour type (A-P)

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

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : in accordance with the product description

Odour : solvent-like

Odour Threshold : No data available

pH : Not applicable

Flash point : 23 °C

Method: ISO 3679, closed cup

Flammability (solid, gas) : Static-accumulating flammable liquid., Combustible Solids

Relative vapour density : No data available

Relative density : No data available

Density : 0,920 - 1,095 g/cm3

Solubility(ies)

Water solubility : immiscible, partly soluble

Solubility in other solvents : Description: miscible with most organic solvents

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature : No decomposition if stored and applied as directed.

Hazardous decomposition products formed under fire condi-

tions.

Viscosity

Viscosity, kinematic : > 20,5 mm2/s (40 °C)

Explosive properties : Not applicable

Oxidizing properties : Sustains combustion

#### 9.2 Other information

No data available

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

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Incompatible with strong acids and bases.

#### 10.6 Hazardous decomposition products

Adequate ventilation is required.

Heating can release vapours which can be ignited.

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

**Components:** 

2-methylpropan-1-ol:

Acute oral toxicity : LD50 Oral (Rat): >= 2.460 mg/kg

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Acute dermal toxicity : LD50 (Rabbit): >= 3.400 mg/kg

propan-2-ol:

Acute oral toxicity : LD50 Oral (Rat): >= 5.840 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 25 mg/l

Exposure time: 6 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): >= 13.900 mg/kg

butan-1-ol:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

LD50 Oral (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

phenol:

Acute oral toxicity : Assessment: The component/mixture is toxic after single in-

gestion.

Acute inhalation toxicity : Test atmosphere: dust/mist

Assessment: The component/mixture is toxic after short term

inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single con-

tact with skin.

formaldehyde:

Acute oral toxicity : Assessment: The component/mixture is toxic after single in-

gestion.

Acute inhalation toxicity : Test atmosphere: vapour

Assessment: The component/mixture is toxic after short term

inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single con-

tact with skin.

Skin corrosion/irritation

Causes skin irritation.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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**Product:** 

Remarks : Extremely corrosive and destructive to tissue.

**Components:** 

2-methylpropan-1-ol:

Result : irritating

butan-1-ol:

Result : irritating

phenol:

Result : Corrosive after 3 minutes to 1 hour of exposure

formaldehyde:

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

**Product:** 

Remarks : May cause irreversible eye damage.

**Components:** 

2-methylpropan-1-ol:

Result : Corrosive

propan-2-ol:

Result : Eye irritation

butan-1-ol:

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

**Components:** 

formaldehyde:

Result : Probability or evidence of skin sensitisation in humans

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## Germ cell mutagenicity

Not classified based on available information.

#### Components:

phenol:

sessment

Germ cell mutagenicity- As- : In vitro tests showed mutagenic effects

formaldehyde:

sessment

Germ cell mutagenicity- As- : In vitro tests showed mutagenic effects

Carcinogenicity

Not classified based on available information.

**Components:** 

formaldehyde:

Carcinogenicity - Assess-

ment

: Possible human carcinogen

### Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

**Components:** 

2-methylpropan-1-ol:

Assessment : May cause drowsiness or dizziness.

Assessment May cause respiratory irritation.

propan-2-ol:

Assessment May cause drowsiness or dizziness.

butan-1-ol:

Assessment May cause drowsiness or dizziness.

Assessment May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

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**Components:** 

phenol:

Assessment May cause damage to organs through prolonged or repeated

exposure.

**Aspiration toxicity** 

Not classified based on available information.

**Further information** 

**Product:** 

Remarks Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause

narcotic effects.

Solvents may degrease the skin.

**SECTION 12: Ecological information** 

12.1 Toxicity

Components:

2-methylpropan-1-ol:

Toxicity to fish LC50 (Fish): > 100 mg/l

Exposure time: 96 h

propan-2-ol:

Toxicity to fish LC50 (Fish): > 100 mg/l

Exposure time: 48 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia (water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to microorganisms : EC50 (Bacteria): > 1.000 mg/l

butan-1-ol:

: LC50 (Fish): > 1.000 mg/l Toxicity to fish

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia (water flea)): > 1.000 mg/l

: EC50 (Bacteria): > 1.000 mg/l Toxicity to microorganisms

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Urea P/W:

**Ecotoxicology Assessment** 

Chronic aquatic toxicity May cause long lasting harmful effects to aquatic life.

zinc oxide:

Toxicity to fish LC50 (Danio rerio (zebra fish)): >= 1,793 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): >= 2,6 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

IC50 (Desmodesmus subspicatus (green algae)): >= 0,136

Exposure time: 72 h

**Ecotoxicology Assessment** 

Acute aquatic toxicity Very toxic to aquatic life.

Chronic aquatic toxicity

Very toxic to aquatic life with long lasting effects.

phenol:

**Ecotoxicology Assessment** 

Chronic aquatic toxicity Toxic to aquatic life with long lasting effects.

zinc 5-nitroisophthalate:

**Ecotoxicology Assessment** 

Acute aquatic toxicity Very toxic to aquatic life.

Chronic aquatic toxicity

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

**Components:** 

2-methylpropan-1-ol:

Biodegradability Result: Biodegradable

zinc oxide:

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Biodegradability : Result: Biodegradable

## 12.3 Bioaccumulative potential

#### **Components:**

2-methylpropan-1-ol:

Partition coefficient: n-octanol/water

log Pow: 0,79

propan-2-ol:

Partition coefficient: n-

octanol/water

log Pow: 0,05

butan-1-ol:

Partition coefficient: n-

octanol/water

log Pow: 0,785

phenol:

Partition coefficient: n-

octanol/water

log Pow: 1,47

formaldehyde:

Partition coefficient: n-

octanol/water

log Pow: 0,35

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

#### 12.6 Other adverse effects

#### **Product:**

Endocrine disrupting poten-

ial

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

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Harmful to aquatic life with long lasting effects.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

# **SECTION 14: Transport information**

#### 14.1 UN number

ADN : UN 1263
ADR : UN 1263
RID : UN 1263
IMDG : UN 1263
IATA : UN 1263

#### 14.2 UN proper shipping name

ADN : PAINT
ADR : PAINT
RID : PAINT
IMDG : PAINT
IATA : Paint

#### 14.3 Transport hazard class(es)

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

## 14.4 Packing group

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**ADN** 

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

**ADR** 

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

**RID** 

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

**IMDG** 

Packing group : III
Labels : 3
EmS Code : F-E, <u>S-E</u>

IATA (Cargo)

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passen- : 355

ger aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

rid

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 3 Not applicable

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

: Not applicable

Control of Major Accident Hazards Regulations P5c FLAMMABLE LIQUIDS

2015 (COMAH)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 70,16 %

#### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H225 : Highly flammable liquid and vapour. H226 : Flammable liquid and vapour.

H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H311 : Toxic in contact with skin.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

H331 : Toxic if inhaled.

H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H341 : Suspected of causing genetic defects.

H350 : May cause cancer.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.H411 : Toxic to aquatic life with long lasting effects.

H413 : May cause long lasting harmful effects to aquatic life.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Carc. : Carcinogenicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Muta. : Germ cell mutagenicity

Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

2009/161/EU : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing

a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending

Commission Directive 2000/39/EC

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2004/37/EC / STEL : Short term exposure limit 2004/37/EC / TWA : Long term exposure limit 2009/161/EU / TWA : Limit Value - eight hours 2009/161/EU / STEL : Short term exposure limit

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GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail: SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

### Classification of the mixture:

MT1 1: 0	11000	Deced on much data on account
Flam. Liq. 3	H226	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H335	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 3	H412	Calculation method

Classification procedure:

407071; 409264; 480792; 480793

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