

# SAFETY DATA SHEET

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



## MOBIHEL 2K HS 3:1 predlak W/W low VOC

Version	Revision Date:	SDS Number:	Date of last issue: 29.09.2021
1.1	01.12.2022	MAT000478435	Date of first issue: 29.09.2021
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : MOBIHEL 2K HS 3:1 predlak W/W low VOC

Product code : 478435

Unique Formula Identifier (UFI) : D59A-A1MT-W006-HUKX

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

Use of the Sub-stance/Mixture : Coatings and paints, thinners, paint removers

Recommended restrictions on use : Reserved for industrial and professional use.

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

Company : Helios TBLUS 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@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)**

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Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

### 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 : Warning

Hazard statements :

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic 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.
- P260 Do not breathe mist or vapours.
- P264 Wash skin thoroughly after handling.
- P273 Avoid release to the environment.

#### Response:

- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P391 Collect spillage.

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Hazardous components which must be listed on the label:

reaction mixture of ethylbenzene, m-xylene and p-xylene

Hydrocarbons, C9 aromatics

n-butyl acetate

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified

### Additional Labelling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

EUH208 Contains dibutyltin dilaurate, Hydrocarbons, terpene processing by-products.

May produce an allergic reaction.

### 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. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
reaction mixture of ethylbenzene, m-xylene and p-xylene	-  905-562-9 01-2119555267-33	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304	>= 10 - < 20
Hydrocarbons, C9 aromatics	-  918-668-5 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 10
trizinc bis(orthophosphate)	7779-90-0	Aquatic Acute 1;	>= 2,5 - < 10

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	231-944-3 030-011-00-6 01-2119485044-40	H400 Aquatic Chronic 1; H410	
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	$\geq 1 - < 10$
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	$\geq 1 - < 10$
solvent naphtha (petroleum), light aromatic	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory sys- tem) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	$\geq 2,5 - < 10$
2-butanone	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	$\geq 1 - < 10$
pentane-2,4-dione	123-54-6 204-634-0 606-029-00-0 01-2119458968-15	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311	$\geq 1 - < 10$
dibutyltin dilaurate	77-58-7 201-039-8 050-030-00-3	Eye Irrit. 2; H319 Skin Sens. 1; H317 Muta. 2; H341 Repr. 1B; H360FD STOT SE 1; H370 STOT RE 1; H372 (Immune system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,1 - < 0,25$
Hexanoic acid, 2-ethyl-, zinc salt, basic	85203-81-2 286-272-3 01-2119979093-30	Eye Irrit. 2; H319 Repr. 2; H361d Aquatic Chronic 3; H412	$\geq 0,1 - < 0,25$
hydrocarbons, terpene processing by-products	68956-56-9 273-309-3 01-2119980606-28	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319	$\geq 0,1 - < 0,25$

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		Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,1 - < 0,25$
2-diethylaminoethanol	100-37-8 202-845-2 603-048-00-6 01-2119488937-14	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318  specific concentra- tion limit STOT SE 3; H335 $\geq 5\%$	$\geq 0,1 - < 1$

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
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 : Immediately flush eye(s) with plenty of water.  
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 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.

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

Risks : Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
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.

Hazardous combustion products : No hazardous combustion products are known.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : 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 separately 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-

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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.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent 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 application 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.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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 care-

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fully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage 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.

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Calcium carbonate	Workers	Inhalation	Long-term local effects	4,26 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	1,06 mg/m <sup>3</sup>
titanium dioxide	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	700 mg/kg bw/day
reaction mixture of ethylbenzene, m-xylene and p-xylene	Workers	Inhalation	Long-term systemic effects	77 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	65,3 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	442 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	289 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	260 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	221 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	14,8 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	260 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	108 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	16 mg/kg bw/day
	Workers	Dermal	Long-term systemic	180 mg/kg



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			effects	bw/day
Hydrocarbons, C9 aromatics	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	Workers	Oral	Long-term systemic effects	150 mg/m3
	Consumers	Inhalation	Long-term exposure	32 mg/m3
	Workers	Dermal	Long-term systemic effects	25 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	11 mg/kg bw/day
trizinc bis(orthophosphate)	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m3
	Workers	Dermal	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,83 mg/kg bw/day
n-butyl acetate	Workers	Inhalation	Acute systemic effects	600 mg/m3
	Workers	Inhalation	Acute local effects	600 mg/m3
	Workers	Inhalation	Long-term systemic effects	48 mg/m3
	Workers	Inhalation	Long-term local effects	300 mg/m3
	Consumers	Inhalation	Acute systemic effects	300 mg/m3
	Consumers	Inhalation	Acute local effects	300 mg/m3
	Consumers	Inhalation	Long-term systemic effects	12 mg/m3
	Consumers	Inhalation	Long-term local effects	35,7 mg/m3
	Consumers	Dermal	Long-term systemic effects	3,4 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	2 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	7 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	11 mg/kg bw/day
2-methoxy-1-methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Inhalation	Acute local effects	550 mg/m3
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3

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	Consumers	Inhalation	Long-term local effects	33 mg/m3
	Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	11 mg/kg bw/day
butanone	Consumers	Inhalation	Long-term systemic effects	106 mg/m3
	Workers	Inhalation	Long-term systemic effects	600 mg/m3
	Workers	Dermal	Long-term systemic effects	1161 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	412 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	31 mg/kg bw/day
pentane-2,4-dione	Workers	Inhalation	Long-term systemic effects	84 mg/m3
	Workers	Dermal	Long-term systemic effects	12 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	7 mg/kg bw/day
dibutyltin dilaurate	Workers	Inhalation	Long-term systemic effects	0,02 mg/m3
	Consumers	Inhalation	Long-term systemic effects	0,0046 mg/m3
	Consumers	Inhalation	Acute systemic effects	0,04 mg/m3
	Workers	Dermal	Long-term systemic effects	0,43 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	2,08 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	0,16 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	0,5 mg/kg bw/day
	Consumers	Oral	Long-term systemic	0,0031 mg/kg

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			effects	bw/day
	Consumers	Oral	Acute systemic effects	0,02 mg/kg bw/day
Hexanoic acid, 2-ethyl-, zinc salt, basic	Workers	Dermal	Long-term systemic effects	6,41 mg/m3
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m3
	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Consumers	Dermal	Long-term systemic effects	3,21 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,83 mg/kg bw/day
Hydrocarbons, terpene processing by-products	Workers	Inhalation	Long-term systemic effects	2,9 mg/m3
	Consumers	Inhalation	Long-term systemic effects	0,7 mg/m3
	Workers	Dermal	Long-term systemic effects	0,8 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	0,3 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,3 mg/kg bw/day
zinc oxide	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Inhalation	Long-term local effects	0,5 mg/m3
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m3
	Workers	Dermal	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,83 mg/kg bw/day
2-diethylaminoethanol	Workers	Inhalation	Long-term systemic effects	18,3 mg/m3
	Workers	Inhalation	Long-term local effects	10,7 mg/m3
	Workers	Dermal	Long-term systemic effects	2,5 mg/kg bw/day

### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Calcium carbonate	Sewage treatment plant	100 mg/l
titanium dioxide	Soil	100 mg/kg dry weight (d.w.)
	Marine water	0,0184 mg/l
	Fresh water	0,184 mg/l
	Marine sediment	100 mg/kg dry

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		weight (d.w.)
	Fresh water sediment	1000 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0,193 mg/l
reaction mixture of ethylbenzene, m-xylene and p-xylene	Soil	2,31 mg/kg dry weight (d.w.)
	Marine water	0,327 mg/l
	Fresh water	0,327 mg/l
	Marine sediment	12,46 mg/kg dry weight (d.w.)
	Fresh water sediment	12,46 mg/kg dry weight (d.w.)
	Sewage treatment plant	6,58 mg/l
	Intermittent use/release	0,327 mg/l
trizinc bis(orthophosphate)	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
n-butyl acetate	Soil	0,0903 mg/kg dry weight (d.w.)
	Marine water	0,018 mg/l
	Fresh water	0,18 mg/l
	Marine sediment	0,0981 mg/kg dry weight (d.w.)
	Fresh water sediment	0,981 mg/kg dry weight (d.w.)
	Sewage treatment plant	35,6 mg/l
	Intermittent use/release	0,36 mg/l
2-methoxy-1-methylethyl acetate	Soil	0,29 mg/kg dry weight (d.w.)
	Marine water	0,0635 mg/l
	Fresh water	0,635 mg/l
	Marine sediment	0,329 mg/kg dry weight (d.w.)
	Fresh water sediment	3,29 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0,00635 mg/l
butanone	Soil	22,5 mg/kg dry weight (d.w.)
	Marine water	55,8 mg/l
	Fresh water	55,8 mg/l
	Marine sediment	284,7 mg/kg dry weight (d.w.)
	Fresh water sediment	284,74 mg/kg dry

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		weight (d.w.)
	Sewage treatment plant	709 mg/l
pentane-2,4-dione	Soil	0,19323 mg/kg dry weight (d.w.)
	Marine water	0,02 mg/l
	Fresh water	0,2 mg/l
	Marine sediment	0,1909 mg/kg dry weight (d.w.)
	Fresh water sediment	1,909 mg/kg dry weight (d.w.)
	Sewage treatment plant	1,32 mg/l
	Intermittent use/release	0,26 mg/l
dibutyltin dilaurate	Fresh water	0,000463 mg/l
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0,00463 mg/l
Hexanoic acid, 2-ethyl-, zinc salt, basic	Soil	1,06 - 35,6 mg/kg dry weight (d.w.)
	Marine water	0,0061 - 0,036 mg/l
	Fresh water	0,0206 - 0,360 mg/l
	Marine sediment	0,637 - 56,5 mg/kg dry weight (d.w.)
	Fresh water sediment	6,37 - 117,8 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,052 - 71,7 mg/l
	Intermittent use/release	0,493 mg/l
Hydrocarbons, terpene processing by-products	Soil	0,11 mg/kg dry weight (d.w.)
	Marine water	0,00021 mg/l
	Fresh water	0,0021 mg/l
	Marine sediment	0,0542 mg/kg dry weight (d.w.)
	Fresh water sediment	0,542 mg/kg dry weight (d.w.)
	Sewage treatment plant	6,4 mg/l
	Intermittent use/release	0,021 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
2-diethylaminoethanol	Soil	0,0977 mg/kg dry weight (d.w.)
	Marine water	0,00623 mg/l

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	Fresh water	0,0623 mg/l
	Marine sediment	0,0673 mg/kg dry weight (d.w.)
	Fresh water sediment	0,673 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Intermittent use/release	0,623 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye 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 : 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 concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.  
Equipment should conform to EN 14387

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 : grey

Odour : solvent-like

Odour Threshold : No data available

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pH	:	Not applicable
Melting point/freezing point	:	-78,0 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	:	126 °C (calculation method (principal components, lowest value))
Flash point	:	29 °C Method: ISO 3679, closed cup
Flammability (solid, gas)	:	Static-accumulating flammable liquid., Combustible Solids
Upper explosion limit / Upper flammability limit	:	7,5 %(V) (calculation method (principal components, highest value))
Lower explosion limit / Lower flammability limit	:	1,0 %(V) (calculation method (principal components, highest value))
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1,398 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	immiscible, partly soluble
Solubility in other solvents	:	Description: miscible with most organic solvents
Partition coefficient: n-octanol/water	:	log Pow: < 4 (calculation method (principal components, highest value))
Auto-ignition temperature	:	425 °C (calculation method (principal components, highest value))
Decomposition temperature	:	No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions.
Viscosity		
Viscosity, kinematic	:	> 20,5 mm <sup>2</sup> /s (40 °C)
Explosive properties	:	Not applicable
Oxidizing properties	:	Sustains combustion

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### 9.2 Other information

No data available

## 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:

reaction mixture of ethylbenzene, m-xylene and p-xylene:



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Acute oral toxicity : LD50 Oral (Rat):  $\geq 8.700$  mg/kg

Acute inhalation toxicity : Test atmosphere: vapour  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

### Hydrocarbons, C9 aromatics:

Acute dermal toxicity : LD50 (Rabbit):  $> 3.160$  mg/kg

### trizinc bis(orthophosphate):

Acute oral toxicity : LD50 (Rat):  $5.000$  mg/kg

### n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat):  $\geq 10.760$  mg/kg

Acute dermal toxicity : LD50 (Rabbit):  $\geq 5.000$  mg/kg

### 2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat):  $> > 2.000$  mg/kg

Acute inhalation toxicity : LC50 (Rat):  $> 5$  mg/l  
Test atmosphere: vapour

LC0 (Rat):  $2000$  ppm  
Exposure time: 3 h

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

### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Acute oral toxicity : 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

### butanone:

Acute oral toxicity : 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

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### **pentane-2,4-dione:**

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

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 contact with skin.

### **2-diethylaminoethanol:**

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

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 contact with skin.

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Remarks : May cause skin irritation and/or dermatitis.

#### **Components:**

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Result : irritating

##### **Hydrocarbons, terpene processing by-products:**

Result : irritating

##### **2-diethylaminoethanol:**

Result : Corrosive after 3 minutes to 1 hour of exposure

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Product:**

Remarks : May cause irreversible eye damage.

#### **Components:**

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

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Result : Eye irritation

### butanone:

Result : Eye irritation

### dibutyltin dilaurate:

Result : Eye irritation

### Hexanoic acid, 2-ethyl-, zinc salt, basic:

Result : Eye irritation

### Hydrocarbons, terpene processing by-products:

Result : Eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

### Product:

Remarks : Causes sensitisation.

### Components:

#### dibutyltin dilaurate:

Result : Probability or evidence of skin sensitisation in humans

#### Hydrocarbons, terpene processing by-products:

Result : Probability or evidence of skin sensitisation in humans

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### dibutyltin dilaurate:

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

### Carcinogenicity

Not classified based on available information.

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### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

#### **Reproductive toxicity**

Not classified based on available information.

### Components:

#### **dibutyltin dilaurate:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

#### **Hexanoic acid, 2-ethyl-, zinc salt, basic:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

#### **STOT - single exposure**

May cause respiratory irritation.

### Components:

#### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Assessment : May cause respiratory irritation.

#### **Hydrocarbons, C9 aromatics:**

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

#### **n-butyl acetate:**

Assessment : May cause drowsiness or dizziness.

#### **2-methoxy-1-methylethyl acetate:**

Assessment : May cause drowsiness or dizziness.

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

#### **butanone:**

Assessment : May cause drowsiness or dizziness.

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### **dibutyltin dilaurate:**

Assessment : Causes damage to organs.

### **STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

### **Components:**

#### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Assessment : May cause damage to organs through prolonged or repeated exposure.

### **dibutyltin dilaurate:**

Assessment : Causes damage to organs through prolonged or repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

May be fatal if swallowed and enters airways.

### **Hydrocarbons, C9 aromatics:**

May be fatal if swallowed and enters airways.

### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

May be fatal if swallowed and enters airways.

### **Hydrocarbons, terpene processing by-products:**

May be fatal if swallowed and enters airways.

### **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.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Toxicity to fish : LC50 (Fish):  $\geq 1 - 10$  mg/l

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)):  $\geq 1 - 10$  mg/l

Toxicity to microorganisms : EC50 (Bacteria):  $\geq 1 - 100$  mg/l

##### **Hydrocarbons, C9 aromatics:**

Toxicity to fish : LC50 (Fish):  $\geq 9,2$  mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)):  $\geq 3,2$  mg/l  
Exposure time: 48 h

##### **Ecotoxicology Assessment**

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

##### **trizinc bis(orthophosphate):**

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity :

Very toxic to aquatic life with long lasting effects.

##### **n-butyl acetate:**

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)):  $> 200$  mg/l

EC50 (Desmodesmus subspicatus (green algae)):  $\geq 647,7$  mg/l  
Exposure time: 72 h

Toxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l  
Exposure time: 40 h

##### **2-methoxy-1-methylethyl acetate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l

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Exposure time: 96 h

NOEC : 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : LC50 : 408 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to fish (Chronic tox- : EC10: 47,5 mg/l  
icity)

### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Toxicity to fish : LC50 (Fish): > 1 - 10 mg/l

Toxicity to daphnia and other : LC50 (Daphnia (water flea)): > 1 - 10 mg/l  
aquatic invertebrates

Toxicity to microorganisms : EC50 (Bacteria): > 1 - 10 mg/l

### **Ecotoxicology Assessment**

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

### **butanone:**

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

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

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

### **dibutyltin dilaurate:**

### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity :

Very toxic to aquatic life with long lasting effects.

### **Hexanoic acid, 2-ethyl-, zinc salt, basic:**

### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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### Hydrocarbons, terpene processing by-products:

#### Ecotoxicology Assessment

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

#### zinc oxide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)):  $\geq 1,793$  mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)):  $\geq 2,6$  mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : IC50 (Desmodesmus subspicatus (green algae)):  $\geq 0,136$   
plants mg/l  
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.

#### 2-diethylaminoethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 147 mg/l  
Exposure time: 96 h  
Method: DIN 38412

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 165 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Scenedesmus subspicatus): 62,3 mg/l  
plants Exposure time: 72 h  
Test Type: Growth inhibition

#### Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## 12.2 Persistence and degradability

### Components:

#### reaction mixture of ethylbenzene, m-xylene and p-xylene:

Biodegradability : Remarks: Readily biodegradable.

Photodegradation : Remarks: Decomposes rapidly in contact with light.



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### **n-butyl acetate:**

Biodegradability : Result: Biodegradable  
Biodegradation: 83 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

Stability in water : Degradation half life: 78 d  
pH: 8  
Remarks: Hydrolyses slowly.

Photodegradation : Remarks: Decomposes rapidly in contact with light.

### **2-methoxy-1-methylethyl acetate:**

Biodegradability : Remarks: Readily biodegradable.

### **zinc oxide:**

Biodegradability : Result: Biodegradable

## 12.3 Bioaccumulative potential

### Components:

#### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Bioaccumulation : Bioconcentration factor (BCF): 25,9  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2,77 - 3,15

#### **Hydrocarbons, C9 aromatics:**

Partition coefficient: n-octanol/water : log Pow: < 4

### **n-butyl acetate:**

Bioaccumulation : Bioconcentration factor (BCF): 15  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1,81

### **2-methoxy-1-methylethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1,2 (20 °C)  
pH: 6,8

### **butanone:**

Partition coefficient: n-octanol/water : log Pow: 0,29

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### pentane-2,4-dione:

Partition coefficient: n-octanol/water : log Pow: 0,34

### 2-diethylaminoethanol:

Partition coefficient: n-octanol/water : log Pow: 0,21

## 12.4 Mobility in soil

### Components:

#### reaction mixture of ethylbenzene, m-xylene and p-xylene:

Distribution among environmental compartments : Koc: 537, log Koc: 2,73  
Remarks: Moderately mobile in soils  
The product evaporates from soil.

Stability in soil : Dissipation time: 23 d  
Percentage dissipation: 50 % (DT50)

#### Hydrocarbons, C9 aromatics:

Mobility : Medium: Air  
Content: 92,9 %  
: Medium: Water  
Content: 3,5 %  
: Medium: Soil  
Content: 1,9 %  
: Medium: Sediment  
Content: 1,8 %

Distribution among environmental compartments : Koc: 1,71 - 14,70  
Remarks: Mobile in soils

Remarks: The product is insoluble and floats on water.

## 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.

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### 12.6 Other adverse effects

#### Product:

- Endocrine disrupting potential : 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 information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic 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 chemical 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.
- Waste Code : 08 00 00, WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS  
08 01 00, wastes from MFSU and removal of paint and varnish  
08 01 11\*, waste paint and varnish containing organic solvents or other hazardous substances  
15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED  
15 01 00, packaging (including separately collected municipal packaging waste)  
15 01 10\*, packaging containing residues of or contaminated by hazardous substances  
HP3, Flammable  
HP4, Irritant - skin irritation and eye damage  
HP5, Specific Target Organ Toxicity (STOT)/Aspiration Toxicity  
HP14, Ecotoxic

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### 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 (trizinc bis(orthophosphate), Hydrocarbons, C9 aromatics)
IATA	:	Paint

#### 14.3 Transport hazard class(es)

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

#### 14.4 Packing group

<b>ADN</b>	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
<b>ADR</b>	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
Tunnel restriction code	: (D/E)
<b>RID</b>	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
<b>IMDG</b>	

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Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 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 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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 3

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E2 ENVIRONMENTAL HAZARDS

P5c FLAMMABLE LIQUIDS

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Seveso III Directive (2012/18/EU) implemented by Control of Major Accident Hazards Regulations 2015 (COMAH) E2 ENVIRONMENTAL HAZARDS

P5c FLAMMABLE LIQUIDS

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Volatile organic compounds : Directive 2004/42/EC  
Volatile organic compounds (VOC) content: 540 g/l

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### Other regulations:

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

### SECTION 16: Other information

#### Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H311	: Toxic in contact with skin.
H312	: Harmful 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.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H341	: Suspected of causing genetic defects.
H360FD	: May damage fertility. May damage the unborn child.
H361d	: Suspected of damaging the unborn child.
H370	: Causes damage to organs.
H372	: Causes damage to organs through prolonged or repeated exposure.
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.
H412	: Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Muta.	: Germ cell mutagenicity
Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure

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STOT SE : Specific target organ toxicity - single exposure

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; TECL - 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

### Classification of the mixture:

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H336
STOT SE 3	H335
STOT RE 2	H373
Aquatic Chronic 2	H411

### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not



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to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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