

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 2040 Zinc spray professional 400 ml

Revision date: 02.12.2024

Product code: 70672

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

##### 1.1. Product identifier

2040 Zinc spray professional 400 ml

UFI: XHQ9-U6CD-S00T-H2CF

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

###### Use of the substance/mixture

Special finishes

###### Uses advised against

No information available.

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

Company name:	Kisling (Deutschland) GmbH	
Street:	Salzstraße 15	
Place:	D-74676 Niedernhall	
Telephone:	+49 7940 50961 61	
E-mail:	customerservice@kisling.com	
Contact person:	Product Compliance	Telephone: +49 7940 5096 143
E-mail:	compliance@kisling.com	
Internet:	www.kisling.com	

##### 1.4. Emergency telephone number:

24 hr. emergency phone number +1 872 5888271 (KAR)  
Medicines & Poisons Info Office +356 2545 6508

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Regulation (EC) No 1272/2008

Aerosol 1; H222-H229  
Acute Tox. 4; H332  
Asp. Tox. 1; H304  
Skin Irrit. 2; H315  
Eye Dam. 1; H318  
STOT SE 3; H335 H336  
STOT RE 2; H373  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

###### Regulation (EC) No 1272/2008

###### Hazard components for labelling

xylene  
Titanium tetrabutanolat  
Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics  
ethylbenzene

Signal word: Danger

###### Pictograms:



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#### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
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

P102	Keep out of reach of children.
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.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

#### Additional advice on labelling

Tactile warning according to EN/ISO 11683.

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



#### Hazard statements

H222-H229-H318-H332-H335-H336-H373

#### Precautionary statements

P102-P210-P211-P251-P410+P412-P501

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances listed below with nonhazardous components.

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#### Relevant ingredients

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
1330-20-7	xylene	15 - < 30 %
	215-535-7	601-022-00-9
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304	
5593-70-4	Titanium tetrabutanolate	5 - < 15 %
	227-006-8	01-2119967423-33
	Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3; H226 H315 H318 H335 H336	
7440-66-6	zinc powder - zinc dust (stabilised)	5 - < 15 %
	231-175-3	030-001-01-9
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
64742-49-0	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics	5 - < 15 %
	927-510-4	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
64742-49-0	Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - <5% n-hexane	5 - < 15 %
	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 C6-C7 - isoalkanes - cyclics - <5% n-hexane	5 - < 15 %
	926-605-8	01-2119486291-36
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411 EUH066	
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane	5 - < 15 %
	931-254-9	01-2119484651-34
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
100-41-4	ethylbenzene	1 - < 5 %
	202-849-4	601-023-00-4
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304	
64742-48-9	Naphtha (petroleum) hydrotreated heavy	1 - < 5 %
	265-150-3	
	Asp. Tox. 1; H304	
78-78-4	isopentane; 2-methylbutane	0.1 - < 1 %
	201-142-8	601-085-00-2
	Flam. Liq. 1, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H224 H336 H304 H411 EUH066	
110-54-3	n-hexane	0.1 - < 1 %
	203-777-6	601-037-00-0
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 2; H225 H361f H315 H336 H373 H304 H411	
108-88-3	toluene	0.1 - < 1 %
	203-625-9	601-021-00-3
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H361d H315 H336 H373 H304 H412	

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110-82-7	cyclohexane		0.1 - < 1 %
	203-806-2	601-017-00-1	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410		

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1330-20-7	215-535-7	xylene	15 - < 30 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1.5 mg/l (dusts or mists); dermal: LD50 = 2000 mg/kg; oral: LD50 = 4300 mg/kg	
5593-70-4	227-006-8	Titanium tetrabutanolat	5 - < 15 %
		oral: LD50 = > 2000 mg/kg	
7440-66-6	231-175-3	zinc powder - zinc dust (stabilised)	5 - < 15 %
		oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	
64742-49-0	927-510-4	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics	5 - < 15 %
		inhalation: LC50 = > 23,3 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = >5840 mg/kg	
64742-49-0	921-024-6	Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - <5% n-hexane	5 - < 15 %
		inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
64742-49-0	931-254-9	Hydrocarbons C6 - isoalkanes <5% n-hexane	5 - < 15 %
		inhalation: LC50 = 73860 mg/l (vapours)	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1.5 mg/l (dusts or mists); oral: LD50 = ca. 3500 mg/kg	
64742-48-9	265-150-3	Naphtha (petroleum) hydrotreated heavy	1 - < 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
110-54-3	203-777-6	n-hexane	0.1 - < 1 %
		inhalation: LC50 = 73860 mg/l (vapours); dermal: LD50 = > 2000 mg/kg STOT RE 2; H373: >= 5 - 100	
108-88-3	203-625-9	toluene	0.1 - < 1 %
		inhalation: LC50 = 49 mg/l (vapours); dermal: LD50 = 12200 mg/kg	
110-82-7	203-806-2	cyclohexane	0.1 - < 1 %
		inhalation: LC50 = > 5540 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. In case of skin irritation, consult a physician.

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#### **After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

#### **After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Get immediate medical advice/attention.

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

No further relevant information available.

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

Treat symptomatically. No further relevant information available.

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

#### **5.1. Extinguishing media**

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

Reignition possible over considerable distance. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

Danger of serious damage to health by prolonged exposure.

Use appropriate respiratory protection.

#### **5.3. Advice for firefighters**

Use water spray jet to protect personnel and to cool endangered containers. Wear a self-contained breathing apparatus and chemical protective clothing. Move undamaged containers from immediate hazard area if it can be done safely. Evacuate area.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

##### **General advice**

Keep away from sources of ignition - No smoking. Ventilate affected area. Avoid breathing spray. See protective measures under point 7 and 8.

#### **6.2. Environmental precautions**

Avoid release to the environment. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

##### **For containment**

Use non-sparking tools. Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it.

##### **For cleaning up**

Soak up inert absorbent and dispose as waste requiring special attention.

#### **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**

Only use the material in places where open light, fire and other flammable sources can be kept away. If local

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exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

#### Advice on general occupational hygiene

Draw up and observe skin protection programme. Avoid contact with skin, eyes and clothes. Avoid breathing spray. When using do not eat, drink or smoke.

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

##### Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Protect from sunlight.

##### Hints on joint storage

Do not store together with:

Pyrophoric or self-heating substances, Organic peroxides and self-reactive substances, Flammable solids, gas, Blasting agent

##### Further information on storage conditions

5 - 30°C

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

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
110-82-7	Cyclohexane	200	700		TWA (8 h)	
100-41-4	Ethylbenzene	100	442		TWA (8 h)	
		200	884		STEL (15 min)	
78-78-4	Isopentane	1000	3000		TWA (8 h)	
110-54-3	n-Hexane	20	72		TWA (8 h)	
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		STEL (15 min)	
1330-20-7	Xylene, mixed isomers, pure	50	221		TWA (8 h)	
		100	442		STEL (15 min)	

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#### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
1330-20-7	xylene			
Worker DNEL, long-term		inhalation	systemic	221 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	442 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	221 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	442 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	212 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	65,3 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	260 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	65,3 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	260 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	125 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	12,5 mg/kg bw/day
5593-70-4	Titanium tetrabutanolate			
Worker DNEL, long-term		inhalation	systemic	127 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	152 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	37,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	3,75 mg/kg bw/day
7440-66-6	zinc powder - zinc dust (stabilised)			
Worker DNEL, long-term		inhalation	systemic	5 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,5 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,83 mg/kg bw/day
64742-49-0	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics			
Worker DNEL, long-term		inhalation	systemic	2085 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	300 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	447 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	149 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	149 mg/kg bw/day
64742-49-0	Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - <5% n-hexane			
Worker DNEL, long-term		inhalation	systemic	2035 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	773 mg/kg bw/day
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane			
Worker DNEL, long-term		inhalation	systemic	5306 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	13964 mg/kg bw/day

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Consumer DNEL, long-term	inhalation	systemic	1131 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	1377 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1301 mg/kg bw/day
100-41-4	ethylbenzene		
Worker DNEL, long-term	inhalation	systemic	77 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	293 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	15 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	1,6 mg/kg bw/day
64742-48-9	Naphtha (petroleum) hydrotreated heavy		
Worker DNEL, long-term	inhalation	systemic	1,9 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	1286,4 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	837,5 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	1066,67 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	0,41 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	1152 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	178,57 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	640 mg/m <sup>3</sup>
110-54-3	n-hexane		
Worker DNEL, long-term	inhalation	systemic	75 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	16 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	5.3 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	4 mg/kg bw/day
110-82-7	cyclohexane		
Worker DNEL, long-term	inhalation	systemic	700 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	1400 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	700 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	1400 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	2016 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	206 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	412 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	206 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	412 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	1186 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	59,4 mg/kg bw/day



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#### PNEC values

CAS No	Name of agent	Value
Environmental compartment		
1330-20-7	xylene	
Freshwater		0,327 mg/l
Freshwater (intermittent releases)		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
5593-70-4	Titanium tetrabutanolate	
Freshwater		0,08 mg/l
Freshwater (intermittent releases)		2,25 mg/l
Marine water		0,008 mg/l
Freshwater sediment		0,069 mg/kg
Marine sediment		0,007 mg/kg
Micro-organisms in sewage treatment plants (STP)		65 mg/l
Soil		0,017 mg/kg
7440-66-6	zinc powder - zinc dust (stabilised)	
Freshwater		0,0206 mg/l
Marine water		0,0061 mg/l
Freshwater sediment		117,8 mg/kg
Marine sediment		121 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,1 mg/l
Soil		106,8 mg/kg
100-41-4	ethylbenzene	
Freshwater		0,1 mg/l
Freshwater (intermittent releases)		0,1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		13,7 mg/kg
Marine sediment		1,37 mg/kg
Secondary poisoning		20 mg/kg
Micro-organisms in sewage treatment plants (STP)		9,6 mg/l
Soil		2,68 mg/kg
110-82-7	cyclohexane	
Freshwater		0,0447 mg/l
Freshwater (intermittent releases)		0,009 mg/l
Marine water		0,00447 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		0,36 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,24 mg/l
Soil		0,694 mg/kg

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#### 8.2. Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Suitable material:

Thickness of the glove material 0,45 mm  
> 480 min

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Self-contained respirator (breathing apparatus)

##### Thermal hazards

Heating causes rise in pressure with risk of bursting.

##### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	silver grey	
Odour:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		< 0 °C
Lower explosion limits:		1,0 vol. %
Upper explosion limits:		9,4 vol. %
Flash point:		-104 °C
Auto-ignition temperature:		300 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		unlöslich
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		3.300 hPa
Density (at 20 °C):		0,757 g/cm <sup>3</sup>
Relative density:		not determined
Relative vapour density:		not determined

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#### 9.2. Other information

##### Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

not determined

##### Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Viscosity / dynamic:

not determined

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Materials to avoid:

#### 10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

#### 10.5. Incompatible materials

No further relevant information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Toxicokinetics, metabolism and distribution

No data available

##### Acute toxicity

Harmful if inhaled.

##### ATEmix calculated

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) 8410 mg/kg; ATE (inhalation vapour) 35.98 mg/l; ATE (inhalation dust/mist) 4.906 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 4300 mg/kg	Rat		
	dermal	LD50 2000 mg/kg	Rabbit		
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1.5 mg/l			
5593-70-4	Titanium tetrabutanolat				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2013)	OECD Guideline 423
7440-66-6	zinc powder - zinc dust (stabilised)				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 401
64742-49-0	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics				
	oral	LD50 >5840 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
64742-49-0	Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - <5% n-hexane				
	oral	LD50 >5000 mg/kg	Rat		OECD 401
	dermal	LD50 >2000 mg/kg	Rat		OECD 402
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat		OECD 403
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane				
	inhalation (4 h) vapour	LC50 73860 mg/l	Rat	Industrial Medicine, Vol. 39, No. 5, May	OECD Guideline 403
100-41-4	ethylbenzene				
	oral	LD50 ca. 3500 mg/kg	Rat	AMA Arch. Ind. Health. 14:387-398. (1956)	No guideline available
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1.5 mg/l			
64742-48-9	Naphtha (petroleum) hydrotreated heavy				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1986)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1986)	OECD Guideline 402
110-54-3	n-hexane				
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1982)	
	inhalation (4 h) vapour	LC50 73860 mg/l	Rat	Industrial Medicine, Vol. 39, No. 5, May	OECD Guideline 403
108-88-3	toluene				

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	dermal	LD50 mg/kg	12200	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50	49 mg/l	Rat	GESTIS	
110-82-7	cyclohexane					
	oral	LD50 mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1982)	OECD Guideline 402
	inhalation (4 h) vapour	LC50	> 5540	Rat	Study report (1981)	OECD Guideline 403

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

#### Sensitising effects

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

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

#### STOT-single exposure

May cause respiratory irritation. (xylene; Titanium tetrabutanolate)

May cause drowsiness or dizziness. (Titanium tetrabutanolate)

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (xylene)

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Specific effects in experiment on an animal

No data available

#### Additional information on tests

No data available

#### Practical experience

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1330-20-7	xylene					
	Fish toxicity	NOEC > 1,3 mg/l	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams
	Crustacea toxicity	NOEC 1,17 mg/l	7 d	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Acute bacteria toxicity	EC50 > 175 mg/l ( )	0 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (	OECD Guideline 209
5593-70-4	Titanium tetrabutanolat					
	Acute fish toxicity	LC50 1740 mg/l	96 h	Pimephales promelas	Aquatic Toxicology and. Hazard Assessmen	other: test methods described by the U.S
	Acute algae toxicity	ErC50 225 mg/l	96 h	Pseudokirchneriella subcapitata	SIDS Initial Assessment Report For SIAM	OECD Guideline 201
	Acute crustacea toxicity	EC50 1300 mg/l	48 h	Daphnia magna	Environmental Toxicology and Chemistry,	other: ASTM 1984: Standard E729-80 and A
64742-49-0	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics					
	Acute fish toxicity	LL50 > 13,4 mg/l	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
	Fish toxicity	NOEC 1,534 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC 1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane					
	Acute fish toxicity	LL50 12 mg/l	96 h	Oncorhynchus mykiss	Study report (1994)	OECD Guideline 203
	Acute algae toxicity	ErC50 13,56 mg/l	72 h	Pseudokirchneriella subcapitata	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
	Acute crustacea toxicity	EL50 31,9 mg/l	48 h	Daphnia magna	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
	Fish toxicity	NOEC 4,089 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC 7,138 mg/l	21 d	Daphnia magna	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a

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100-41-4	ethylbenzene						
	Acute fish toxicity	LC50	4,2 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicol. Environ. Saf. 16:158-169 (19	OECD Guideline 203
	Acute algae toxicity	ErC50	4,6 mg/l	72 h	Pseudokirchneriella subcapitata	Chemosphere 10(10): 1123-1126 (1981)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	1,8 - 2,4	48 h	Daphnia magna	Water Res. 27:903-909 (1993)	other: According to EPA method F
	Acute bacteria toxicity	EC50 mg/l ( )	ca. 600	0.5 h	activated sludge, domestic	Study report (1988)	OECD Guideline 209
64742-48-9	Naphtha (petroleum) hydrotreated heavy						
	Acute fish toxicity	LL50	8,2 mg/l	96 h	Pimephales promelas	Study report (1995)	other: EPA 66013-75-009
	Acute algae toxicity	ErC50	3,1 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EL50	4,5 mg/l	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
	Fish toxicity	NOEC	2,6 mg/l	21 d	Daphnia magna	Study report (1999)	other: OECD Guideline 211
	Crustacea toxicity	NOEC	2,6 mg/l	21 d	Daphnia magna	Study report (1999)	OECD Guideline 211
110-54-3	n-hexane						
	Acute fish toxicity	LL50	12 mg/l	96 h	Oncorhynchus mykiss	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	9.285	72 h	Raphidocelis subcapitata	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
	Acute crustacea toxicity	EL50 mg/l	21.85	48 h	Daphnia magna	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
	Fish toxicity	NOEC	2.8 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC mg/l	4.888	21 d	Daphnia magna	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
108-88-3	toluene						
	Acute fish toxicity	LC50	13 mg/l	96 h	Carassius auratus	IUCLID	
	Acute algae toxicity	ErC50 mg/l	12,5	72 h		GESTIS	
110-82-7	cyclohexane						
	Acute fish toxicity	LC50 mg/l	4,53	96 h	Pimephales promelas	Vol. 5, Centre for Lake Superior Studies	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	9,317	72 h	Raphidocelis subcapitata	Study report (1998)	OECD Guideline 201

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	Acute crustacea toxicity	EC50	0,9 mg/l	48 h	Daphnia magna	Publication (1987)	OECD Guideline 202
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#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1330-20-7	xylene	3,2
5593-70-4	Titanium tetrabutanolat	0,84
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane	5,8
100-41-4	ethylbenzene	3,6
110-54-3	n-hexane	5,8
108-88-3	toluene	2,73
110-82-7	cyclohexane	3,44

#### BCF

CAS No	Chemical name	BCF	Species	Source
1330-20-7	xylene	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E
7440-66-6	zinc powder - zinc dust (stabilised)	69,48	Capoeta fusca	Water Qual Expo Heal
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane	>= 11,73	Pimephales promelas	REACH Registration D
100-41-4	ethylbenzene	1	Oncorhynchus kisutch	Arch. Environ. Conta
110-54-3	n-hexane	>= 26,26	Pimephales promelas	REACH Registration D
110-82-7	cyclohexane	167	Pimephales promelas	J. Fish. Board Can.

#### 12.4. Mobility in soil

No further relevant information available.

#### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Endocrine disrupting properties

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 data available

#### Further information

Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains.

##### 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



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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**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Completely emptied packages can be recycled.

## 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):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
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):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification 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):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



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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)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable  
**14.3. Transport hazard class(es):** 2.1  
**14.4. 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: 203  
IATA-max. quantity - Passenger: 75 kg  
IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: zinc

#### 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 29, Entry 40, Entry 48, Entry 57, Entry 75

Directive 2010/75/EU on industrial emissions: 85%; 640 g/l

Directive 2004/42/EC on VOC in paints and varnishes: 640 g/l

Subcategory according to Directive 2004/42/EC: Special finishes - All types, VOC limit value: 840 g/l

Information according to Directive 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Additional information: E2

##### National regulatory information

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Employment restrictions:

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

Water hazard class (D):

3 - highly hazardous to water

#### **15.2. Chemical safety assessment**

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

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

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#### Abbreviations and acronyms

Aerosol: Aerosol  
Flam. Liq: Flammable liquid  
Acute Tox: Acute toxicity  
Asp. Tox: Aspiration hazard  
Skin Irrit: Skin irritation  
Eye Dam: Eye damage  
Eye Irrit: Eye irritation  
Repr: Reproductive toxicity  
STOT SE: Specific target organ toxicity - single exposure  
STOT RE: Specific target organ toxicity - repeated exposure  
Aquatic Acute: Acute aquatic hazard  
Aquatic Chronic: Chronic aquatic hazard  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern

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

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Acute Tox. 4; H332	Bridging principle "Aerosols"
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Bridging principle "Aerosols"
Eye Dam. 1; H318	Bridging principle "Aerosols"
STOT SE 3; H335	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
STOT RE 2; H373	Bridging principle "Aerosols"
Aquatic Chronic 2; H411	Calculation method

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

H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
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.
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.)*