

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 34 (replaces version 33)

Revision: 18.01.2023

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

#### 1.1 Product identifier

Trade name: **Epoxy Primer**

Article number: 86375

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

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

Application of the substance / the mixture Priming

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

##### Manufacturer/Supplier:

KENT (United Kingdom) Ltd

Forsyth House

Pitreavie Drive

Pitreavie Business Park

Dunfermline

Fife

KY11 8US

Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

Fax: +44 1383 620079

SDS@kenteurope.com

#### 1.4 Emergency telephone number:

Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



flame

Aerosol 1

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.



corrosion

Eye Dam. 1

H318 Causes serious eye damage.



Skin Irrit. 2

H315 Causes skin irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

STOT SE 3

H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

#### Hazard pictograms



GHS02



GHS05



GHS07

Signal word **Danger**

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**Hazard-determining components of labelling:**

Butan-1-ol  
n-butyl acetate  
Diglycidyl Ether of Bisphenol A  
Acetone

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe spray.  
P280 Wear protective gloves / eye protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

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

**2.3 Other hazards****Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

**Description:** Mixture of the substances listed below with harmless additions.

**Dangerous components:**

CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	Dimethyl ether ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-50%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	10-25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336, EUH066	10-25%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38	Butan-1-ol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335; STOT SE 3, H336	5-10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<5%
CAS: 13463-67-7 EINECS: 236-675-5	Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] substance with a Community workplace exposure limit	<5%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40	Trizinc bis(orthophosphate) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<3%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<3%

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CAS: 25036-25-3	Diglycidyl Ether of Bisphenol A <span style="color: red;">⚠</span> Aquatic Chronic 2, H411; <span style="color: red;">⚠</span> Skin Irrit. 2, H315; <span style="color: red;">⚠</span> Eye Irrit. 2, H319; <span style="color: red;">⚠</span> Skin Sens. 1, H317	<3%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	Propan-2-ol <span style="color: red;">⚠</span> Flam. Liq. 2, H225; <span style="color: red;">⚠</span> Eye Irrit. 2, H319; <span style="color: red;">⚠</span> STOT SE 3, H336	<3%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

##### After skin contact

Instantly wash with water and soap and rinse thoroughly.

##### After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

##### After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

#### 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

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents

Use fire fighting measures that suit the environment.

CO<sub>2</sub>, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.

##### For safety reasons unsuitable extinguishing agents

Water with a full water jet.

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

Formation of poisonous gases during heating or in fires.

#### 5.3 Advice for firefighters

##### Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

Put on breathing apparatus.

##### Additional information

Collect contaminated fire fighting water separately. It must not enter drains.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Keep away from ignition sources

Wear protective equipment. Keep unprotected persons away.

#### 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

Inform respective authorities in case product reaches water or sewage system.

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

Send for recovery or disposal in suitable containers.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

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**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on flames or red-hot objects.

**7.2 Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and containers:**

Store in cool location.

Observe official regulations on storing packagings with pressurised containers.

**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

**Storage class 2 B****7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Components with limit values that require monitoring at the workplace:****115-10-6 Dimethyl ether**WEL Short-term value: 958 mg/m<sup>3</sup>, 500 ppmLong-term value: 766 mg/m<sup>3</sup>, 400 ppm**67-64-1 Acetone**WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppmLong-term value: 1210 mg/m<sup>3</sup>, 500 ppm**123-86-4 n-butyl acetate**WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppmLong-term value: 724 mg/m<sup>3</sup>, 150 ppm**71-36-3 Butan-1-ol**WEL Short-term value: 154 mg/m<sup>3</sup>, 50 ppm

Sk

**1330-20-7 xylene**WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppmLong-term value: 220 mg/m<sup>3</sup>, 50 ppm

Sk; BMGV

**13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]**WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*total inhalable \*\*respirable

**67-63-0 Propan-2-ol**WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppmLong-term value: 999 mg/m<sup>3</sup>, 400 ppm**Regulatory information** WEL: EH40/2020**DNELs****115-10-6 Dimethyl ether**Inhalative Long term systemic effect 1,894 mg/m<sup>3</sup> (Worker)**67-64-1 Acetone**

Dermal Long term systemic effect 186 mg/kg bw/day (Worker)

Inhalative Long term systemic effect 1,210 mg/m<sup>3</sup> (Worker)Acute local effect 2,420 mg/m<sup>3</sup> (Worker)**123-86-4 n-butyl acetate**

Dermal Acute systemic effect 11 mg/kg bw/day (Worker)

Long term systemic effect 11 mg/kg bw/day (Worker)

Inhalative Long term systemic effect 300 mg/m<sup>3</sup> (Worker)Acute local effect 600 mg/m<sup>3</sup> (Worker)Long term local effect 300 mg/m<sup>3</sup> (Worker)Acute systemic effect 600 mg/m<sup>3</sup> (Worker)

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<b>1330-20-7 xylene</b>		
Dermal	Long term local effect	3,182 mg/kg/day (Worker)
Inhalative	Acute local effect	442 mg/m <sup>3</sup> (Worker)
	Long term local effect	221 mg/m <sup>3</sup> (Worker)
<b>1314-13-2 zinc oxide</b>		
Dermal	Long term systemic effect	87 mg/kg body wt/day (Worker)
Inhalative	Long term systemic effect	5 mg/m <sup>3</sup> (Worker)
<b>67-63-0 Propan-2-ol</b>		
Oral	Long term systemic effect	26 mg/kg/day (Consumer)
Dermal	Long term systemic effect	319 mg/kg/day (Consumer)
		888 mg/kg bw/day (Worker)
Inhalative	Long term systemic effect	89 mg/m <sup>3</sup> (Consumer)
		500 mg/m <sup>3</sup> (Worker)
<b>PNECs</b>		
<b>115-10-6 Dimethyl ether</b>		
PNEC	0.155 mg/l (Aqua (freshwater))	
	1,549 mg/l (Aqua (intermittent))	
	0.016 mg/l (Aqua (marine water))	
	0.681 mg/l (Freshwater sediment)	
	0.069 mg/l (Marine water sediment)	
	0.045 mg/l (Soil)	
<b>67-64-1 Acetone</b>		
PNEC	10.6 mg/l (Aqua (freshwater))	
	21 mg/l (Aqua (intermittent))	
	1.06 mg/l (Aqua (marine water))	
	30.4 mg/kg (Freshwater sediment)	
	3.04 mg/kg (Marine water sediment)	
	29.5 mg/kg (Soil)	
<b>123-86-4 n-butyl acetate</b>		
PNEC	0.18 mg/l (Aqua (freshwater))	
	0.36 mg/ml (Aqua (intermittent))	
	0.018 mg/ml (Aqua (marine water))	
	0.981 mg/kg (Freshwater sediment)	
	0.0981 mg/kg (Marine water sediment)	
	35.6 mg/l (Sewage treatment plant)	
0.09 mg/kg (Soil)		
<b>1330-20-7 xylene</b>		
PNEC	0.327 mg/l (Aqua (freshwater))	
	0.327 mg/l (Aqua (marine water))	
	12.46 mg/l (Freshwater sediment)	
	12.46 mg/l (Marine water sediment)	
	6.58 mg/l (Sewage treatment plant)	
	2.31 mg/kg (Soil)	
<b>13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]</b>		
PNEC	0.184 mg/l (Aqua (freshwater))	
	0.193 mg/l (Aqua (intermittent))	
	0.0184 mg/l (Aqua (marine water))	
	1,000 mg/kg (Freshwater sediment)	
	100 mg/kg (Marine water sediment)	
	100 mg/l (Sewage treatment plant)	
	100 mg/kg (Soil)	
<b>1314-13-2 zinc oxide</b>		
PNEC	0.02 mg/l (Aqua (freshwater))	
	0.006 mg/l (Aqua (marine water))	
	0.052 mg/kg (Freshwater sediment)	

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	56.5 mg/kg (Marine water sediment) 35.6 mg/kg (Soil)
<b>67-63-0 Propan-2-ol</b>	
PNEC	140.9 mg/l (Aqua (freshwater)) 140.9 mg/l (Aqua (intermittent)) 140.9 mg/l (Aqua (marine water)) 552 mg/kg (Freshwater sediment) 552 mg/kg (Marine water sediment) 2,251 mg/l (Sewage treatment plant) (Assessment factor 1) 28 mg/kg (Soil)
<b>Ingredients with biological limit values:</b>	
<b>1330-20-7 xylene</b>	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

· **Additional information:** The lists that were valid during the compilation were used as basis.

### · 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Filter A2 / P3 (EN 14387)

· **Hand protection**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Wear suitable gloves tested to EN 374

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

Value for the permeation: Level 6 > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Safety glasses (EN 166)

Tightly sealed safety glasses. (EN 166)

· **Body protection:** Protective work clothing (EN-13034/6)

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### SECTION 9: Physical and chemical properties

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

##### General Information

· Physical state	Aerosol
· Colour:	According to product specification
· Odour:	Light
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	Not applicable, as aerosol
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1.2 Vol %
· Upper:	18.6 Vol %
· Flash point:	Not applicable, as aerosol
· Ignition temperature:	235 °C
· Decomposition temperature:	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Not miscible / difficult to mix
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	5,200 hPa (185.3 mm Hg)
· Density and/or relative density	
· Density at 20 °C	0.80 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.

#### 9.2 Other information

· Appearance:	
· Form:	Aerosol
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Not determined.
· Solvent content:	
· Organic solvents:	724 g/l VOC
· Solids content:	8.4 %
· Change in condition	
· Evaporation rate	Not applicable.

#### Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void

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Desensitised explosives

Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

67-64-1 Acetone		
Oral	LD50	5,800 mg/kg (Rat)
Dermal	LD50	20,000 mg/kg (Rabbit)
123-86-4 n-butyl acetate		
Oral	LD50	14,000 mg/kg (Rat)
71-36-3 Butan-1-ol		
Oral	LD50	790 mg/kg (Rat)
Dermal	LD50	3,400 mg/kg (Rabbit)
Inhalative	LC50 (4 hr)	24.3 mg/l (Rat)
1330-20-7 xylene		
Oral	LD50	4,300 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rabbit)
13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]		
Oral	LD50	>20,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (Rat)
	ErC 50	61 mg/l (Algae) (EPA 600/9-78-018, 72 hr)
7779-90-0 Trizinc bis(orthophosphate)		
Oral	LD50	>5,000 mg/kg (Rat)
1314-13-2 zinc oxide		
	ErC 50	0.17 mg/l (Selenastrum capricornutum) (72 hrs)
25036-25-3 Diglycidyl Ether of Bisphenol A		
Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	20,000 mg/kg (Rabbit)
67-63-0 Propan-2-ol		
Oral	LD50	5,840 mg/kg (Rat)
Dermal	LD50	13,400 mg/kg (Rabbit)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause drowsiness or dizziness.

#### 11.2 Information on other hazards

· **Endocrine disrupting properties**

None of the ingredients is listed.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

<b>115-10-6 Dimethyl ether</b>	
EC50 (48 hr)	>4,000 mg/l ( <i>Daphnia magna</i> )
EL50 (48 hr)	4,001 mg/l ( <i>Daphnia magna</i> )
LC50 (48 hr)	755,549 mg/l ( <i>Daphnia magna</i> )
LC50 (96 hr)	154.9 mg/l ( <i>Algae</i> )
	4,001 mg/l ( <i>Poecilia reticulata</i> )
<b>67-64-1 Acetone</b>	
EC50	61,150 mg/l ( <i>Activated sludge</i> ) (30 mins)
EC50 (48 hr)	39 mg/l ( <i>Daphnia magna</i> )
LC50 (96 hr)	8,300 mg/l ( <i>Fish</i> )
	5,540 mg/l ( <i>Oncorhynchus mykiss</i> )
NOEC (28 days)	2,212 mg/l ( <i>Daphnia magna</i> )
<b>123-86-4 n-butyl acetate</b>	
EC50 (48 hr)	44 mg/l ( <i>Daphnia magna</i> )
EC50 (72 hr)	674.7 mg/l ( <i>Desmodesmus subspicatus</i> )
LC50 (48 hr)	44 mg/l ( <i>Daphnia magna</i> )
LC50 (96 hr)	18 mg/l ( <i>Pimephales promelas</i> )
NOEC (72 hr)	200 mg/l ( <i>Desmodesmus subspicatus</i> )
<b>71-36-3 Butan-1-ol</b>	
CE10 (16 hr)	2,250 mg/l ( <i>Pseudomonas Putida</i> )
CE50 (5 mins)	2,041 mg/l ( <i>Photobacterium phosphoreum</i> ) ( <i>Bacteria: Microtox Text</i> )
<b>1330-20-7 xylene</b>	
CE50	10 mg/l ( <i>Fish</i> ) (72h)
EC50 (48 hr)	7.4 mg/l ( <i>Daphnia magna</i> )
LC50 (96 hr)	3.77-13.5 mg/l ( <i>Fish</i> )
<b>13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]</b>	
LC50 (48 hr)	5.5 mg/l ( <i>Crustacea</i> )
LC50 (96 hr)	>100 mg/l ( <i>Oncorhynchus mykiss</i> ) (= OECD 203)
<b>7779-90-0 Trizinc bis(orthophosphate)</b>	
EC10	27.3 ( <i>Algae</i> ) (72 hours)
	59.2 ( <i>Daphnia magna</i> ) (21 days)
EC50	0.527 mg/l ( <i>Algae</i> ) (96 h)
EC50 (48 hr)	2.34 mg/l ( <i>Daphnia magna</i> )
EC50 (72 hr)	0.17 mg/l ( <i>Selenastrum capricornutum</i> )
	0.14 mg/l ( <i>Desmodesmus subspicatus</i> )
LC50	0.41 ug/l ( <i>Oncorhynchus mykiss</i> ) (96 h)
	238-269 ug/l ( <i>Pimephales promelas</i> ) (96 h)
NOEC (72 hr)	0.017 mg/l ( <i>Pseudokirchneriella subcapitata</i> )
NOEC	9 mg/l ( <i>Ceratophyllum demersum</i> ) (72 h)
	178 mg/l ( <i>Crustaceen-Palaemon elegans</i> ) (21 days)
	8.3 mg/l ( <i>Cyprinus carpio</i> ) (4 week)
	72.9 mg/l ( <i>Pseudokirchneriella subcapitata</i> ) (72 h)
<b>1314-13-2 zinc oxide</b>	
NOEC (72 hr)	0.017 mg/l ( <i>Pseudokirchneriella subcapitata</i> )
<b>67-63-0 Propan-2-ol</b>	
EC50 (48 hr)	13,299 mg/l ( <i>Daphnia magna</i> )
LC50 (24 hr)	9,714 mg/l ( <i>Daphnia magna</i> )
LC50 (96 hr)	4,200 mg/l ( <i>FSH</i> ) (dynamic)
	9,640 mg/l ( <i>Pimephales promelas</i> )
LOEC (8 days)	1,000 mg/l ( <i>Algae</i> )

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

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- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.  
 Do not allow product to reach ground water, water bodies or sewage system.  
 Must not reach sewage water or drainage ditch undiluted or unneutralised.  
 Danger to drinking water if even small quantities leak into soil.  
 Harmful to aquatic organisms

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                    | <p style="text-align: center;">UN1950</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | <p style="text-align: center;">1950 AEROSOLS<br/>AEROSOLS<br/>AEROSOLS, flammable</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>  | <div style="text-align: center;">  </div> <p style="text-align: center;">Class 2.1 Gases.<br/>Label 2.1</p> <hr style="border-top: 1px dashed black;"/> <div style="text-align: center;">  </div> <p style="text-align: center;">Class 2.1 Gases.<br/>Label 2.1</p> |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p style="text-align: center;">Void</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>                                  | <p style="text-align: center;">No</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Kemler Number:</b></li> <li>· <b>EMS Number:</b></li> </ul> | <p style="text-align: center;">Warning: Gases.<br/>-<br/>F-D,S-U</p>  |

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<ul style="list-style-type: none"> <li>· <b>Stowage Code</b></li> <li>· <b>Segregation Code</b></li> </ul>	<p>SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</p> <p>SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>1L Code: E0 Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	<p>2 D</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>1L Code: E0 Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 1950 AEROSOLS, 2.1

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
  - **Seveso category P3a FLAMMABLE AEROSOLS**
  - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
  - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
  - **National regulations**
  - **Technical instructions (air):**
- | Class | Share in % |
|-------|------------|
| NK    | 70.1       |
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
  - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

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H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 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.  
 EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing data specification sheet:** Environment protection department

· **Abbreviations and acronyms:**

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (UK REACH)  
 PNEC: Predicted No-Effect Concentration (UK REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Gas 1A: Flammable gases – Category 1A  
 Aerosol 1: Aerosols – Category 1  
 : Aerosols – Category 3  
 Press. Gas (Comp.): Gases under pressure – Compressed gas  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **Data compared to the previous version altered.** \*

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