

## **Safety Data Sheet**

according to UK REACH Regulation

### 114 Brake Protection 400 ml AB

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

#### 1.1. Product identifier

114 Brake Protection 400 ml AB

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

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

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

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

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

1.4. Emergency telephone 111 NHS (National Health Service)

number:

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

## 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Aerosol 1; H222-H229 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## **GB CLP Regulation**

## Hazard components for labelling

ethyl acetate Acetone

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Signal word: Danger

Pictograms:







## **Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

H411 Toxic 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.

P273 Avoid release to the environment.



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P280 Wear 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P251 Do not pierce or burn, even after use.

### 2.3. Other hazards

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

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

### 3.2. Mixtures



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## **Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation	nn)	·	
115-10-6	dimethyl ether			25 - < 50 %
	204-065-8	603-019-00-8		
	Flam. Gas 1, Liquefied gas; H22	) H280	•	
141-78-6	ethyl acetate			10 - < 20 %
	205-500-4	607-022-00-5	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT S	E 3; H225 H319 H336 EUH06	6	
7440-66-6	zinc powder - zinc dust (stabilize	d)		5 - < 10 %
	231-175-3	030-001-01-9	01-2119485044-40	
	Aquatic Acute 1, Aquatic Chronic	1; H400 H410	·	
67-64-1	Acetone			5 - < 10 %
	200-662-2	606-001-00-8	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT S			
	Hydrocarbons, C6-C7, n-alkanes	5 - < 10 %		
	921-024-6		01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT S H411			
7779-90-0	trizinc bis(orthophosphate)	3 - < 5 %		
	231-944-3	030-011-00-6		
	Aquatic Acute 1, Aquatic Chronic			
1330-20-7	xylene			3 - < 5 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute 1, Aquatic Chronic 3; H226 H332		2, STOT SE 3, STOT RE 2, Asp. Tox. 3 H304 H412	
100-41-4	ethylbenzene	1 - < 3 %		
	202-849-4	601-023-00-4		
	Flam. Liq. 2, Acute Tox. 4, STOT	RE 2, Asp. Tox. 1; H225 H33	2 H373 H304	
1314-13-2	zinc oxide	0.1 - < 1 %		
	215-222-5	030-013-00-7		
	Aquatic Acute 1, Aquatic Chronic			

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



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity				
	Specific Conc	Limits, M-factors and ATE					
141-78-6	205-500-4	ethyl acetate	10 - < 20 %				
	inhalation: LC mg/kg	250 = 1600 mg/l (vapours); dermal: LD50 = >20000 mg/kg; oral: LD50 = 5620					
67-64-1	200-662-2	Acetone	5 - < 10 %				
	inhalation: LC	inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg					
	921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	5 - < 10 %				
	inhalation: LC50 = > 25,2 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = > 5000 mg/kg						
7779-90-0	231-944-3	trizinc bis(orthophosphate)	3 - < 5 %				
	oral: LD50 = 3	> 5000 mg/kg					
1330-20-7	215-535-7	xylene	3 - < 5 %				
	l l	250 = 6700 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: mg/kg; oral: LD50 = 3523 mg/kg					
100-41-4	202-849-4	ethylbenzene	1 - < 3 %				
		250 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: mg/kg; oral: LD50 = 3500 mg/kg					
1314-13-2	215-222-5	zinc oxide	0.1 - < 1 %				
	oral: LD50 = > 5000 mg/kg						

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

## 4.1. Description of first aid measures

### **General information**

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

### After inhalation

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

## After contact with skin

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

## After contact with eyes

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

#### After ingestion

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

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

Headache, nausea, dizziness, fatigue, skin irritation

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

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

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

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



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## Unsuitable extinguishing media

Full water jet

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

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

#### 5.3. Advice for firefighters

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

#### Additional information

Danger of bursting container.

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

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

#### General advice

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

Wear personal protection equipment.

## 6.2. Environmental precautions

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

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

#### Other information

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

## 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

Wear personal protection equipment (refer to section 8).

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

#### Advice on protection against fire and explosion

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

### Advice on general occupational hygiene

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

## Further information on handling

Avoid contact with skin and eyes.

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



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## Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

## Hints on joint storage

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

## Further information on storage conditions

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

## 7.3. Specific end use(s)

No information available.

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

## 8.1. Control parameters

## **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	734		TWA (8 h)	WEL
		400	1468		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

## **Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650	urine	Post shift
		(creatinine)	mmol/mol		



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## **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane					
Worker DNEL	, long-term	inhalation	systemic	2035 mg/m³		
Worker DNEL	, long-term	dermal	systemic	773 mg/kg bw/day		
Consumer DN	EL, long-term	inhalation	systemic	608 mg/m³		
Consumer DN	EL, long-term	dermal	systemic	699 mg/kg bw/day		
Consumer DN	EL, long-term	oral	systemic	699 mg/kg bw/day		
7779-90-0	trizinc bis(orthophosphate)			•		
Worker DNEL	, long-term	dermal	systemic	83 mg/kg bw/day		
Consumer DN	EL, long-term	inhalation	systemic	2,5 mg/m³		
Consumer DN	EL, long-term	dermal	systemic	83 mg/kg bw/day		
Consumer DN	EL, long-term	oral	systemic	0,83 mg/kg bw/day		
Worker DNEL	, long-term	inhalation	systemic	5 mg/m³		
1330-20-7	xylene					
Worker DNEL	, long-term	inhalation	systemic	221 mg/m³		
Worker DNEL	, acute	inhalation	systemic	442 mg/m³		
Worker DNEL	, long-term	inhalation	local	221 mg/m³		
Worker DNEL	, acute	inhalation	local	442 mg/m³		
Worker DNEL	, long-term	dermal	systemic	212 mg/kg bw/day		
Consumer DN	EL, long-term	inhalation	systemic	65,3 mg/m³		
Consumer DN	EL, acute	inhalation	systemic	260 mg/m³		
Consumer DNEL, long-term		inhalation	local	65,3 mg/m³		
Consumer DNEL, acute		inhalation	local	260 mg/m³		
Consumer DNEL, long-term		dermal	systemic	125 mg/kg bw/day		
Consumer DN	EL, long-term	oral	systemic	12,5 mg/kg bw/day		



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#### **PNEC values**

CAS No	Substance		
Environment	Environmental compartment		
7779-90-0	trizinc bis(orthophosphate)		
Freshwater		0,0206 mg/l	
Marine water		0,0061 mg/l	
Freshwater s	ediment	117,8 mg/kg	
Marine sedim	nent	56,5 mg/kg	
Micro-organis	sms in sewage treatment plants (STP)	0,1 mg/l	
Soil		35,6 mg/kg	
1330-20-7	xylene		
Freshwater		0,327 mg/l	
Freshwater (i	ntermittent releases)	0,327 mg/l	
Marine water		0,327 mg/l	
Freshwater s	12,46 mg/kg		
Marine sedim	12,46 mg/kg		
Micro-organis	6,58 mg/l		
Soil	Soil		

#### Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long-term exposure:

d before next shift

blood (B)

Urine (U)

### 8.2. Exposure controls

### Appropriate engineering controls

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

## Individual protection measures, such as personal protective equipment

### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

EN 166

### **Hand protection**

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min

Thickness of the glove material 0,45 mm

**EN ISO 374** 

### Skin protection

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

## Respiratory protection

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

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

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

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



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Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

### **Environmental exposure controls**

Observe legal regulations and provisions.

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

## 9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour:

Odour: characteristic

Test method

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

-24,8 °C

boiling range:

Flash point: -42 °C

**Flammability** 

Solid/liquid: not applicable
Gas: not applicable
Lower explosion limits: 2 vol. %
Upper explosion limits: 32 vol. %

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

pH-Value (at 20 °C): DIN 19268

Water solubility:

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

insoluble in water.

Solubility in other solvents

not determined

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

Density (at 20 °C): 1,08 g/cm³ DIN 51757

Relative vapour density: not determined

9.2. Other information

### Information with regard to physical hazard classes

Oxidizing properties Not oxidising.

Other safety characteristics

Solid content: not determined Evaporation rate: not determined

**Further Information** 

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



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

#### 10.1. Reactivity

Extremely flammable aerosol.

## 10.2. Chemical stability

The product is stable under normal conditions.

## 10.3. Possibility of hazardous reactions

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

#### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

## 10.6. Hazardous decomposition products

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

#### **Further information**

Do not mix with other chemicals.

## **SECTION 11: Toxicological information**

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

## Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

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



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
141-78-6	ethyl acetate	•			•	
	oral	LD50 mg/kg	5620	Rat		
	dermal	LD50 mg/kg	>20000	Rabbit		
	inhalation (4 h) vapour	LC50 mg/l	1600	Rat		
67-64-1	Acetone					
	oral	LD50 mg/kg	5800	Rat		
	dermal	LD50 mg/kg	20000	Rabbit		
	inhalation (4 h) vapour	LC50	76 mg/l	Rat		
	Hydrocarbons, C6-C7, n-	-alkanes, isoa	ılkanes, cyc	lics, < 5% n-hexane		
	oral	LD50 mg/kg	> 5000	Rat		
	dermal	LD50 3100 mg/kg	> 2800 -	Rat	Study report (1977)	The acute toxicity of SBP 100/140 was de
	inhalation (4 h) vapour	LC50 mg/l	> 25,2	Rat	Study report (1988)	Group of rats were exposed to test subst
7779-90-0	trizinc bis(orthophosphat	e)				
	oral	LD50 mg/kg	> 5000	Rat	Secondary source (1989)	OECD Guideline 401
1330-20-7	xylene					
	oral	LD50 mg/kg	3523	Rat	Study report (1986)	EU Method B.1
	dermal	LD50 mg/kg	12126	Rabbit	Publication (1962)	Single dermal dose under occlusion follo
	inhalation (4 h) vapour	LC50 mg/l	6700	Rat	Toxicol Appl Pharmacol 33:543-558. (1975	EU Method B.2
	inhalation dust/mist	ATE	1,5 mg/l			
100-41-4	ethylbenzene	_				
	oral	LD50 mg/kg	3500	Rat	GESTIS	
	dermal	LD50 mg/kg	15400	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50	17,2 mg/l	Rat		
	inhalation dust/mist	ATE	1,5 mg/l			
1314-13-2	zinc oxide					
	oral	LD50 mg/kg	> 5000	Rat	IUCLID	

## Irritation and corrosivity

Causes skin irritation.
Causes serious eye irritation.



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## Sensitising effects

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

## Carcinogenic/mutagenic/toxic effects for reproduction

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

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

### STOT-single exposure

May cause drowsiness or dizziness. (ethyl acetate)

### STOT-repeated exposure

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

#### **Aspiration hazard**

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

## Specific effects in experiment on an animal

No information available.

## Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **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		
15-10-6	dimethyl ether								
	Acute fish toxicity	LC50 mg/l	> 4100	96 h	Poecilia reticulata (Guppy)				
	Acute algae toxicity	ErC50 mg/l	> 154	96 h	Green Algae				
	Acute crustacea toxicity	EC50 mg/l	> 4400	48 h	Daphnia magna				
41-78-6	ethyl acetate								
	Acute fish toxicity	LC50	230 mg/l	96 h	Pimephales promelas (fathead minnow)				
	Acute crustacea toxicity	EC50	165 mg/l	48 h	Daphnia magna				
7-64-1	Acetone								
	Acute fish toxicity	LC50 mg/l	5540	96 h	Onchorhynchus mykiss				
	Acute algae toxicity	ErC50 mg/l	5000	96 h	Desmodesmus subspicatus				
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna				
	Hydrocarbons, C6-C7, n-	alkanes, isc	alkanes, cycl	ics, < 5%	n-hexane				
	Acute fish toxicity	LC50 mg/l	> 1-10	96 h	Pimephales promelas				
	Acute algae toxicity	ErC50 mg/l	10 - 30	72 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	> 1-10	48 h	Daphnia magna				
	Fish toxicity	NOEC mg/l	2,045	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	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		
779-90-0	trizinc bis(orthophosphate	·)		•		<u> </u>			
	Acute fish toxicity	LC50 mg/l	0,315	96 h	Thymallus arcticus	Ecotoxicology and environmental safety 2	other: American Society for testing matr		
	Acute crustacea toxicity	EC50 mg/l	1,22	48 h	Daphnia magna	Publication (1995)	other: US EPA/600/4-85/01 3: methods for		
	Fish toxicity	NOEC mg/l	0,44	72 d	Oncorhynchus mykiss	Trans. Am. Fish. Soc. 111, 70-77 (1982)	lab -designed dose response test with sm		
	Algae toxicity	NOEC mg/l	1,071	16 d	Macrocystis pyrifera	Mar Environ Res 26(2):113-134 (1988)	16-d and 2-d toxicity test to early life		



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	Crustacea toxicity	NOEC mg/l	0,031	50 d Da	aphnia magna	Aquatic Toxicologhy 12,273-290 (1988)	chronic tests were performed for an exte
	Acute bacteria toxicity	(EC50	5,2 mg/l)	pre	tivated sludge of a edominantly mestic sewag	Water research volume 17, nr10, 1363-136	OECD Guideline 209
1330-20-7	xylene						
	Acute fish toxicity	LC50	8,4 mg/l	96 h Or	ncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203
	Acute algae toxicity	ErC50	4,9 mg/l		seudokirchneriella bcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 3,4	48 h Ce	eriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Fish toxicity	NOEC mg/l	> 1,3	56 d Or	ncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams
	Crustacea toxicity	NOEC mg/l	1,17	7 d Ce	eriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Acute bacteria toxicity	(EC50 mg/l)	> 175	0,5 h Ac	ctivated sludge	Research Journal WPCF 60(10) 1850-1856 (	OECD Guideline 209
100-41-4	ethylbenzene						
	Acute algae toxicity	ErC50	3,6 mg/l	96 h		GESTIS	

## 12.2. Persistence and degradability

The product has not been tested.

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

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,1
141-78-6	ethyl acetate	-0,24
67-64-1	Acetone	-0,24
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	3,4 - 5,2
1330-20-7	xylene	3,2
100-41-4	ethylbenzene	3,15



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#### **BCF**

CAS No	Chemical name	BCF	Species	Source
7779-90-0	trizinc bis(orthophosphate)	4060	various wildlife species	Arch. Environ. Conta
1330-20-7	xylene	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E

#### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

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

The product has not been tested.

#### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

No information available.

#### **Further information**

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

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

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

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

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

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

hazardous waste

## List of Wastes Code - used product

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

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

hazardous waste

### List of Wastes Code - contaminated packaging

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

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal

packaging waste); metallic packaging

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

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

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



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

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

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

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

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

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 (zinc powder - zinc dust (stabilized))

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

Special Provisions: A145 A167 A802

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

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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: zinc powder - zinc dust (stabilized)

14.6. Special precautions for user

Warning: Flammable gases.

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 40, Entry 75

2010/75/EU (VOC): No information available. 2004/42/EC (VOC): No information available.



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### **Additional information**

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

Aerosol Directive (75/324/)

## **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

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

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

#### Changes

This data sheet contains changes from the previous version in section(s): 9.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

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

ELINCS: European List of Notified Chemical Substances

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

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

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

ATE: Acute Toxicity Estimate

STEL (EC) Short Term Exposure Limit

LC50: Lethal Concentration

EC50: half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate

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

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Skin Irrit. 2; H315	Bridging principle "Aerosols"
Eye Irrit. 2; H319	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
Aquatic Chronic 2; H411	Calculation method

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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
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.		
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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)