

133 Valve cleaner MP13300400AB

Revision date: 20.02.2024

Product code: 1103555

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

1.1. Product identifier

133 Valve cleaner MP13300400AB

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

Use of the substance/mixture

Cleaner

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)	
numbori		

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229 Acute Tox. 4; H312 Acute Tox. 4; H332 Asp. Tox. 1; H304 Skin Corr. 1B; H314 Eye Dam. 1; H318 Repr. 2; H361fd STOT SE 3; H335 STOT SE 3; H336 STOT RE 2; H373 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

xylene n-propanol Hydrocarbons, C9, aromatics ethylbenzene

morpholine

Oxirane, 2-ethyl-, homopolymer, 3-aminopropyl C11-14-isoalkyl ethers, C13-rich

Signal word:

Pictograms:





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Hazard statements		
H222	Extremely flammable aerosol.	
H229	Pressurised container: May burst if heated.	
H312+H332	Harmful in contact with skin or if inhaled.	
H314	Causes severe skin burns and eye damage.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statemen	ts	
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 and eye/face protection.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P333+P317	If skin irritation or rash occurs: Get medical help.	
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.	
P304+P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.	

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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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Relevant ingredients

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	Classification (GB CLP	Regulation)			
1330-20-7	xylene			25 - < 50 %	
	215-535-7	601-022-00-9	01-2119488216-32		
		. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irri 226 H332 H312 H315 H319 H335 H3	. 2, STOT SE 3, STOT RE 2, Asp. Tox. 73 H304 H412		
71-23-8	n-propanol			10 - < 20 %	
	200-746-9	603-003-00-0	01-2119486761-29		
	Flam. Liq. 2, Eye Dam.	1, STOT SE 3; H225 H318 H336			
64742-95-6	Hydrocarbons, C9, aro	matics		10 - < 20 %	
	918-668-5		01-2119455851-35		
	Flam. Liq. 3, STOT SE H411 EUH066				
100-41-4	ethylbenzene				
	202-849-4	601-023-00-4			
	Flam. Liq. 2, Acute To H332 H315 H319 H33				
110-91-8	morpholine				
	203-815-1		01-2119496057-30		
	Flam. Liq. 3, Repr. 2, A H361fd H331 H311 H3				
	Polyether amine, polyn	3 - < 5 %			
	Skin Irrit. 2, Eye Irrit. 2,				
108-88-3	toluene			0.1 - < 1 %	
	203-625-9	601-021-00-3	01-2119471310-51		
	Flam. Liq. 2, Repr. 2, S H373 H304				

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	
1330-20-7	215-535-7	xylene	25 - < 50 %
		50 = 6700 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: mg/kg; oral: LD50 = 3523 mg/kg	
71-23-8	200-746-9	n-propanol	10 - < 20 %
	inhalation: LC5 mg/kg	50 = > 33,8 mg/l (vapours); dermal: LD50 = 4032 mg/kg; oral: LD50 = 8000	
64742-95-6	918-668-5	Hydrocarbons, C9, aromatics	10 - < 20 %
	dermal: LD50	= > 3160 mg/kg; oral: LD50 = 3592 mg/kg	
100-41-4	202-849-4	ethylbenzene	10 - < 20 %
		50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: mg/kg; oral: LD50 = 3500 mg/kg	
110-91-8	203-815-1	morpholine	5 - < 10 %
		50 = 8 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 g; oral: LD50 = ca. 1900 mg/kg	
108-88-3	203-625-9	toluene	0.1 - < 1 %
	inhalation: LC	50 = 49 mg/l (vapours); dermal: LD50 = 12200 mg/kg; oral: LD50 = 5580 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.

Unsuitable extinguishing media

Full water jet



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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.

For non-emergency personnel

First aider: Pay attention to self-protection!

For emergency responders

Fight fire with normal precautions from a reasonable distance.

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

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

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.





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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

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
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
110-91-8	Morpholine	10	36		TWA (8 h)	WEL
		20	72		STEL (15 min)	WEL
71-23-8	Propan-1-ol	200	500		TWA (8 h)	WEL
		250	625		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		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 (creatinine)	650 mmol/mol		Post shift



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1330-20-7	xylene			
Worker DNEL	long-term	inhalation	systemic	221 mg/m ³
Worker DNEL	acute	inhalation	systemic	442 mg/m ³
Worker DNEL	long-term	inhalation	local	221 mg/m ³
Worker DNEL	acute	inhalation	local	442 mg/m ³
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/m ³
Consumer DN	EL, long-term	inhalation	local	65,3 mg/m³
Consumer DN	EL, acute	inhalation	local	260 mg/m ³
Consumer DN	EL, long-term	dermal	systemic	125 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	12,5 mg/kg bw/day
110-91-8	morpholine	•		
Worker DNEL	long-term	inhalation	systemic	91 mg/m³
Worker DNEL	long-term	inhalation	local	36 mg/m³
Worker DNEL	acute	inhalation	local	72 mg/m³
Worker DNEL	long-term	dermal	systemic	1,04 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	6,3 mg/kg bw/day

PNEC values

CAS No	Substance					
Environmental	compartment	Value				
1330-20-7	xylene					
Freshwater	reshwater					
Freshwater (int	termittent releases)	0,327 mg/l				
Marine water		0,327 mg/l				
Freshwater see	diment	12,46 mg/kg				
Marine sedime	nt	12,46 mg/kg				
Micro-organisms in sewage treatment plants (STP) 6,58 mg/l						
Soil		2,31 mg/kg				
110-91-8	morpholine					
Freshwater		0,163 mg/l				
Freshwater (int	termittent releases)	0,09 mg/l				
Marine water		0,016 mg/l				
Freshwater see	diment	1,83 mg/kg				
Marine sediment 0,183 mg/kg						
Micro-organisn	Micro-organisms in sewage treatment plants (STP) 10 mg/l					
Soil		0,269 mg/kg				



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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: A
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: Colour: Odour:	Aerosol light yellow amine-like		
			Test method
Melting point/freezing point:		not determined	
Boiling point or initial boiling point and		97 °C	
boiling range:			
Flammability:		not applicable	
Lower explosion limits:		0,7 vol. %	
Upper explosion limits:		13,5 vol. %	
Flash point:		15 °C	
Auto-ignition temperature:		> 200 °C	
Decomposition temperature:		not determined	



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pH-Value (at 20 °C):						
Viscosity / kinematic: (at 40 °C)	< 20,5 mm²/s					
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: Vapour pressure:	not determined not determined					
Density (at 20 °C): Relative vapour density:	0,8675 g/cm³ not determined	DIN 51757				
9.2. Other information						
Information with regard to physical hazard Self-ignition temperature	d classes					
Solid:	not applicable					
Gas: Oxidizing properties Not oxidising.	not applicable					
Other safety characteristics						
Evaporation rate:	not determined					
Solid content:	not determined					
Sublimation point:	not applicable					
Softening point:	not determined					
Pour point:	not determined					
Further Information						
Data apply to technical substance: Relative	density, Colour, Odour, Viscosity, pH.					
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



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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

Harmful in contact with skin. Harmful if inhaled.

ATEmix calculated

ATE (oral) 7576 mg/kg; ATE (dermal) 1857 mg/kg; ATE (inhalation vapour) 18,61 mg/l; ATE (inhalation dust/mist) 1,980 mg/l



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CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
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						
71-23-8	n-propanol								
	oral	LD50 mg/kg	8000	Rat					
	dermal	LD50 mg/kg	4032	Rabbit					
	inhalation (4 h) vapour	LC50 mg/l	> 33,8	Rat					
64742-95-6	Hydrocarbons, C9, arom	atics							
	oral	LD50 mg/kg	3592	Rat					
	dermal	LD50 mg/kg	> 3160	Rabbit					
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						
110-91-8	morpholine	-							
	oral	LD50 mg/kg	ca. 1900	Rat	Study report (1967)	OECD Guideline 401			
	dermal	LD50 mg/kg	ca. 500	Rabbit	Arch. Ind. Hyg Occup. Med. 10 61–68 (195	OECD Guideline 402			
	inhalation (4 h) vapour	LC50	8 mg/l	Rat					
	inhalation dust/mist	ATE	0,5 mg/l						
108-88-3	toluene								
	oral	LD50 mg/kg	5580	Rat					
	dermal	LD50 mg/kg	12200	Rabbit	GESTIS				
	inhalation (4 h) vapour	LC50	49 mg/l	Rat	GESTIS				

Irritation and corrosivity

Causes severe skin burns and eye damage. Causes serious eye damage.



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Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. Suspected of damaging the unborn child. (morpholine)

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

Carcinogenicity: 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 respiratory irritation. (xylene) May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

Ingestion, Inhalation, Skin contact, Eye contact. Reference to other sections: 2.1, 4.2.

Specific effects in experiment on an animal

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

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

Other information

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful 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								
	Acute fish toxicity	LC50	8,4 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203		
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	> 3,4	48 h	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003		
	Fish toxicity	NOEC mg/l	> 1,3	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams		
	Crustacea toxicity	NOEC mg/l	1,17	7 d	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003		
	Acute bacteria toxicity	EC50 mg/l()	> 175	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (OECD Guideline 209		
71-23-8	n-propanol								
	Acute fish toxicity	LC50 mg/l	4480	96 h	Pimephales promelas				
64742-95-6	Hydrocarbons, C9, aromatics								
	Acute fish toxicity	LC50	9,2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)				
	Acute algae toxicity	ErC50 mg/l	2,6-2,9	96 h	Pseudokirchneriella subcapitata				
	Acute crustacea toxicity	EC50	3,2 mg/l	48 h	Daphnia magna				
100-41-4	ethylbenzene								
	Acute algae toxicity	ErC50	3,6 mg/l	96 h	Pseudokirchneriella subcapitata	GESTIS			
110-91-8	morpholine								
	Acute fish toxicity	LC50	380 mg/l	96 h	Oncorhynchus mykiss	Chemosphere 9: 753-762 (1980)	other: IRSA		
	Acute algae toxicity	ErC50	28 mg/l	96 h	Pseudokirchneriella subcapitata	Chemosphere 9: 753-762 (1980)	other: EPA, National Eutrophication Rese		
	Acute crustacea toxicity	EC50 mg/l	44,5	48 h	Daphnia magna	Study report (1997)	OECD Guideline 202		
	Algae toxicity	NOEC	10 mg/l	4 d	Desmodesmus subspicatus				
	Crustacea toxicity	NOEC	5 mg/l	21 d	Daphnia magna	Study report (1997)	OECD Guideline 211		
108-88-3	toluene								
	Acute fish toxicity	LC50	13 mg/l	96 h	Carassius auratus	IUCLID			



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	Acute algae toxicity	ErC50 mg/l	> 433		Pseudokirchneriella subcapitata	GESTIS	
	Acute crustacea toxicity	EC50 mg/l	11,5	48 h	Daphnia magna		

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
Evaluation					
110-91-8 morpholine					
	OECD 301E	93%	25		
	Easily biodegradable (concerning to the criteria of the OECD)				

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1330-20-7	xylene	3,2
71-23-8	n-propanol	0,29
100-41-4	ethylbenzene	3,15
110-91-8	morpholine	-2,55
108-88-3	toluene	2,73

BCF

CAS No	Chemical name	BCF	Species	Source
1330-20-7	xylene	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E
110-91-8	morpholine	0	Cyprinus carpio	Review article or ha

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



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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):	2
14.4. Packing group:	-
Hazard label:	2.1+8
Classification code:	5FC
Special Provisions:	190 327 344 625
Limited quantity:	1L
Excepted quantity:	E0
Transport category:	1
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+8
Classification code:	5FC
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+8
Marine pollutant:	no
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, containing substances in Class 8, Packing Group
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1+8
Special Provisions:	A145 A167 A802



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Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	Forbidden Forbidden E0 Forbidden Forbidden Forbidden Forbidden	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
 I4.6. Special precautions for user Warning: Flammable gases. I4.7. Maritime transport in bulk according to pretomotion bulk. 	o IMO instruments	
not applicable		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture	
I5.1. Safety, health and environmental regu EU regulatory information	lations/legislation specific for the substance or mixture	
EU regulatory information Restrictions on use (REACH, annex XVII):		
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 28, Entry 40, Entry 48, E Directive 2010/75/EU on industrial	Entry 75	
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 28, Entry 40, Entry 48, E Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints	Entry 75 No information available.	
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 28, Entry 40, Entry 48, E Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes:	Entry 75 No information available. No information available.	
 EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 28, Entry 40, Entry 48, E Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Additional information Safety Data Sheet according to Regulation 	Entry 75 No information available. No information available.	
 EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 28, Entry 40, Entry 48, E Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Additional information Safety Data Sheet according to Regula Aerosol Directive (75/324/) 	Entry 75 No information available. No information available.	nt restrictions

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 11.



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Product code: 1103555 Abbreviations and acronyms Aerosol: Aerosols Flam. Lig: Flammable liquids Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Corr: Skin corrosion 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 Chronic: Chronic aquatic hazard 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
Acute Tox. 4; H312	Bridging principle "Aerosols"
Acute Tox. 4; H332	Bridging principle "Aerosols"
Asp. Tox. 1; H304	Calculation method
Skin Corr. 1B; H314	Bridging principle "Aerosols"
Eye Dam. 1; H318	Bridging principle "Aerosols"
Repr. 2; H361fd	Calculation method
STOT SE 3; H335	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
STOT RE 2; H373	Bridging principle "Aerosols"
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.

according to UK REACH Regulation

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H304	May be fatal if swallowed and enters airways.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	
H312+H332	Harmful in contact with skin or if inhaled.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H361d	Suspected of damaging the unborn child.	
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
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	on describes exclusively the safety requirements of the product and is based on our	
present-day knowled	Ige. 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.)