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

1.1. Product identifier

Jokisch Migma Tano DPR MP

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:	JOKOBA Technologies GmbH Germany
Street:	Industriestraße 5-10
Place:	D-33813 Oerlinghausen
Telephone:	+49(0)5202/9734-0
E-mail:	info@jokoba.de
Contact person:	Regulatory affairs
E-mail:	MSDS@jokoba.de
Internet:	www.jokisch-fluids.de

1.4. Emergency telephone number:

Emergency telephone number (24h) +1 872 5888271 (JRR) (en)

Further Information

Reserved for industrial and professional use.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard statements

H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Precautionary statements

P273	Avoid release to the environment.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified			10 - < 15 %
	265-159-2		01-2119480132-48	
	Asp. Tox. 1; H304			
770-35-4	1-phenoxypropan-2-ol			2.5 - < 5 %
	212-222-7		01-2119486566-23	
	Eye Irrit. 2; H319			
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine			2.5 - < 5 %
	203-312-7		01-2119488970-24	
	Carc. 2, Eye Irrit. 2; H351 H319			
68608-26-4	Sulfonic acids, petroleum, sodium salts			1 - < 2.5 %
	271-781-5		01-2119527859-22	
	Eye Irrit. 2; H319			
68511-37-5	Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates			1 - < 2.5 %
	614-543-1			
	Skin Irrit. 2; H315			
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated (<5 -9 EO)			1 - < 2.5 %
	500-236-9		01-2119489407-26	
	Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 3; H315 H400 H412			
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl			0.1 - < 1 %
	201-993-5		01-2119511183-53	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H315 H319 H335 H400 H410			
157627-86-6	Alcohols, C13-15, branched and linear, ethoxylated			0.1 - < 1 %
	500-337-8			
	Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 3; H319 H400 H412			
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			< 0.1 %
	203-961-6		01-2119475104-44	
	Eye Irrit. 2; H319			
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one			< 0.036 %
	220-120-9	613-088-00-6		
	Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H302 H315 H318 H317 H400 H410			
141-43-5	2-aminoethanol; ethanolamine			< 0.1 %
	205-483-3	603-030-00-8	01-2119486455-28	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Chronic 3; H332 H312 H302 H314 H318 H317 H335 H412			
2682-20-4	2-methylisothiazol-3(2H)-one			< 0.0015 %
	220-239-6		01-2120764690-50	
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
64742-56-9	265-159-2	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified	10 - < 15 %
	oral: LD50 = 5000 mg/kg		
770-35-4	212-222-7	1-phenoxypropan-2-ol	2.5 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
105-59-9	203-312-7	2,2'-(methylimino)diethanol; N-methyldiethanolamine	2.5 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 4680 mg/kg		
68608-26-4	271-781-5	Sulfonic acids, petroleum, sodium salts	1 - < 2.5 %
	dermal: LD50 = > 5001 mg/kg; oral: LD50 = > 5001 mg/kg		
68511-37-5	614-543-1	Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates	1 - < 2.5 %
	oral: LD50 = >2000 mg/kg		
68920-66-1	500-236-9	Alcohols, C16-18 and C18-unsatd., ethoxylated (<5 -9 EO)	1 - < 2.5 %
	inhalation: LC50 = > 100 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
90-43-7	201-993-5	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl	0.1 - < 1 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2733 mg/kg		
157627-86-6	500-337-8	Alcohols, C13-15, branched and linear, ethoxylated	0.1 - < 1 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg Aquatic Acute 1; H400: M=1		
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	< 0.1 %
	dermal: LD50 = 2764 mg/kg; oral: LD50 = 3305 mg/kg		
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	< 0.036 %
	inhalation: ATE 0,21 mg/l (dusts or mists); oral: ATE 450 mg/kg Skin Sens. 1A; H317: >= 0,036 - 100 Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1		
141-43-5	205-483-3	2-aminoethanol; ethanolamine	< 0.1 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1025 mg/kg; oral: LD50 = 1515 mg/kg STOT SE 3; H335: >= 5 - 100		
2682-20-4	220-239-6	2-methylisothiazol-3(2H)-one	< 0.0015 %
	inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 242 mg/kg; oral: LD50 = 120-249 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100 Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1		

Further Information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Seek medical attention if problems persist. No administration in cases of unconsiousness or cramps.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Call a doctor if you feel unwell.

After contact with skin

Remove contaminated, saturated clothing immediately. Rinse skin with water or shower.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Foam. Dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:
Nitrogen oxides (NOx).
Carbon monoxide
Carbon dioxide (CO2).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

See protective measures under point 7 and 8.
High slip hazard because of leaking or spilled product. Do not breathe mist/vapours/spray. Provide adequate ventilation.

For non-emergency personnel

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

For emergency responders

The danger areas must be delimited and identified using relevant warning and safety signs. Move victim out of danger zone.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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).

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. Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 13: Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas.
When using do not eat, drink or smoke.

Further information on handling

When using do not eat, drink or smoke.
High slip hazard because of leaking or spilled product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.
Recommended storage temperature: 5-30 °C
Maximum period of storage (time): 1 year

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	
111-46-6	2,2'-Oxydiethanol	23	100		TWA (8 h)	
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	
		3	7.6		STEL (15 min)	
111-42-2	Diethanolamine (Inhalable Fraction and Vapour)	0.2	1		TWA (8 h)	
111-46-6	Diethylene glycol	23	100		TWA (8 h)	
141-43-5	Ethanolamine (2-Aminoethanol)	1	2.5		TWA (8 h)	
		3	7.6		STEL (15 min)	
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	
102-71-6	Triethanolamine	-	5		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m³
Worker DNEL, long-term		inhalation	local	5,58 mg/m³
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	1,19 mg/m³
770-35-4	1-phenoxypropan-2-ol			
Worker DNEL, long-term		inhalation	systemic	25,7 mg/m³
Worker DNEL, long-term		dermal	systemic	42 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	21 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	3,65 mg/kg bw/day
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine			
Worker DNEL, long-term		inhalation	systemic	7,9 mg/m³
Worker DNEL, long-term		dermal	systemic	5,6 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0,05 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	0,4 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,67 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,03 mg/cm²
Consumer DNEL, long-term		oral	systemic	0,13 mg/kg bw/day
102-71-6	Triethanolamin			
Worker DNEL, long-term		inhalation	local	1 mg/m³
Worker DNEL, long-term		dermal	systemic	7,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	0,4 mg/m³
Consumer DNEL, long-term		dermal	local	2,66 mg/person/day
Consumer DNEL, long-term		oral	systemic	3,3 mg/kg bw/day
68608-26-4	Sulfonic acids, petroleum, sodium salts			
Worker DNEL, long-term		inhalation	systemic	0,66 mg/m³
Worker DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,33 mg/m³
Consumer DNEL, long-term		dermal	systemic	1667 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,833 mg/kg bw/day
57-55-6	1,2-propylene glycol (1,2-propanediol)1,2-propylene glycol (1,2-propanediol)			
Worker DNEL, long-term		inhalation	systemic	168 mg/m³
Consumer DNEL, long-term		oral	systemic	85 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	213 mg/kg bw/day

Worker DNEL, long-term	inhalation	local	10 mg/m³
Consumer DNEL, long-term	inhalation	systemic	50 mg/m³
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated (<5 -9 EO)		
Worker DNEL, long-term	inhalation	systemic	294 mg/m³
Worker DNEL, long-term	dermal	systemic	2080 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	87 mg/m³
Consumer DNEL, long-term	dermal	systemic	1250 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	25 mg/kg bw/day
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl		
Worker DNEL, long-term	inhalation	systemic	19,25 mg/m³
Worker DNEL, long-term	dermal	systemic	21,84 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,2 mg/m³
Consumer DNEL, long-term	dermal	systemic	0,4 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,4 mg/kg bw/day
111-46-6	2,2' -oxybisethanol, diethylene glycol		
Worker DNEL, long-term	inhalation	systemic	44 mg/m³
Worker DNEL, long-term	inhalation	local	60 mg/m³
Worker DNEL, long-term	dermal	systemic	43 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	12 mg/m³
Consumer DNEL, long-term	inhalation	local	12 mg/m³
Consumer DNEL, long-term	dermal	systemic	21 mg/kg bw/day
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether		
Worker DNEL, long-term	dermal	systemic	83 mg/kg bw/day
Consumer DNEL, acute	inhalation	local	60,7 mg/m³
Worker DNEL, long-term	inhalation	local	67,5 mg/m³
Consumer DNEL, long-term	inhalation	local	40,5 mg/m³
Consumer DNEL, long-term	inhalation	systemic	40,5 mg/m³
Worker DNEL, long-term	inhalation	systemic	67,5 mg/m³
Worker DNEL, acute	inhalation	local	101,2 mg/m³
Consumer DNEL, long-term	dermal	systemic	50 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	5 mg/kg bw/day
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one		
Worker DNEL, long-term	inhalation	systemic	6,81 mg/m³
Worker DNEL, long-term	dermal	systemic	0,966 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,2 mg/m³
Consumer DNEL, long-term	dermal	systemic	0,345 mg/kg bw/day
111-42-2	2,2'-iminodiethanol; diethanolamine		
Worker DNEL, long-term	inhalation	systemic	0,75 mg/m³
Consumer DNEL, long-term	inhalation	systemic	0,125 mg/m³
Worker DNEL, long-term	inhalation	local	0,5 mg/m³

Consumer DNEL, long-term	inhalation	local	0,125 mg/m³
Worker DNEL, long-term	dermal	systemic	0,130 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	0,07 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,06 mg/kg bw/day
141-43-5	2-aminoethanol; ethanolamine		
Worker DNEL, long-term	inhalation	systemic	1 mg/m³
Worker DNEL, long-term	inhalation	local	0,51 mg/m³
Worker DNEL, long-term	dermal	systemic	3 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,18 mg/m³
Consumer DNEL, long-term	inhalation	local	0,28 mg/m³
Consumer DNEL, long-term	dermal	systemic	1,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1,5 mg/kg bw/day
1310-73-2	Sodium hydroxide; caustic soda		
Worker DNEL, long-term	inhalation	local	1 mg/m³
Consumer DNEL, long-term	inhalation	local	1 mg/m³
1310-58-3	potassium hydroxide; caustic potash		
Worker DNEL, long-term	inhalation	local	1 mg/m³
Consumer DNEL, long-term	inhalation	local	1 mg/m³
1310-73-2	Sodium hydroxide; caustic soda		
Worker DNEL, long-term	inhalation	local	1 mg/m³
Consumer DNEL, long-term	inhalation	local	1 mg/m³
2682-20-4	2-methylisothiazol-3(2H)-one		
Worker DNEL, long-term	inhalation	local	0,021 mg/m³
Worker DNEL, acute	inhalation	local	0,043 mg/m³
Consumer DNEL, long-term	inhalation	local	0,021 mg/m³
Consumer DNEL, acute	inhalation	local	0,043 mg/m³
Consumer DNEL, long-term	oral	systemic	0,027 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	0,053 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
770-35-4	1-phenoxypropan-2-ol	
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		0,38 mg/kg
Marine sediment		0,038 mg/kg
Microorganisms in sewage treatment plants (STP)		10 mg/l
Soil		0,02 mg/kg
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine	
Freshwater		0,1 mg/l
Marine water		0,004 mg/l
Freshwater sediment		0,78 mg/kg
Marine sediment		0,035 mg/kg
Microorganisms in sewage treatment plants (STP)		10 mg/l
Soil		0,097 mg/kg
102-71-6	Triethanolamin	
Freshwater		0,32 mg/l
Marine water		0,32 mg/l
Freshwater sediment		1,7 mg/kg
Marine sediment		0,17 mg/kg
Microorganisms in sewage treatment plants (STP)		10 mg/l
Soil		0,151 mg/kg
68608-26-4	Sulfonic acids, petroleum, sodium salts	
Freshwater		1 mg/l
Marine water		1 mg/l
Freshwater sediment		723500000 mg/kg
Marine sediment		723500000 mg/kg
Secondary poisoning		16667 mg/kg
Microorganisms in sewage treatment plants (STP)		100 mg/l
Soil		868700000 mg/kg
57-55-6	1,2-propylene glycol (1,2-propanediol)1,2-propylene glycol (1,2-propanediol)	
Freshwater		260 mg/l
Marine water		26 mg/l
Freshwater sediment		572 mg/kg
Marine sediment		57,2 mg/kg
Soil		50 mg/kg
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated (<5 -9 EO)	
Freshwater		0,007 mg/l
Marine water		0,001 mg/l

Freshwater sediment	22,79 mg/kg
Marine sediment	2,28 mg/kg
Secondary poisoning	10 mg/l
Soil	1,0 mg/kg
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl
Freshwater	0,00009 mg/l
Marine water	0,00009 mg/l
Marine water (intermittent releases)	0,027 mg/l
Freshwater sediment	0,1284 mg/kg
Marine sediment	0,01284 mg/kg
Soil	2,5 mg/kg
111-46-6	2,2' -oxybisethanol, diethylene glycol
Freshwater	10 mg/l
Marine water	1 mg/l
Freshwater sediment	20,9 mg/kg
Marine sediment	2,09 mg/kg
Microorganisms in sewage treatment plants (STP)	199,5 mg/l
Soil	1,53 mg/kg
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Freshwater	1,1 mg/l
Marine water	0,11 mg/l
Freshwater sediment	4,4 mg/kg
Marine sediment	0,44 mg/kg
Secondary poisoning	56 mg/kg
Microorganisms in sewage treatment plants (STP)	200 mg/l
Soil	0,4 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one
Freshwater	4,03
Marine water (intermittent releases)	0,403
Freshwater sediment	49,9
Marine sediment	4,99
Microorganisms in sewage treatment plants (STP)	1,03 mg/l
Soil	3 mg/kg
111-42-2	2,2'-iminodiethanol; diethanolamine
Freshwater	0,021 mg/l
Marine water	0,002 mg/l
Freshwater sediment	0,092 mg/kg
Marine sediment	0,0092 mg/kg
Soil	1,63 mg/kg
141-43-5	2-aminoethanol; ethanolamine
Freshwater	0,07 mg/l
Marine water	0,007 mg/l
Freshwater sediment	0,357 mg/kg

Marine sediment		0,036 mg/kg
Microorganisms in sewage treatment plants (STP)		100 mg/l
Soil		1,29 mg/kg
2682-20-4	2-methylisothiazol-3(2H)-one	
Freshwater		0,00339 mg/l
Marine water		0,00339 mg/l
Microorganisms in sewage treatment plants (STP)		0,23 mg/l
Soil		0,047 mg/kg

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

EN 166

Hand protection

Protect skin by using skin protective cream.
Wash hands before breaks and after work.
Gloves of appropriate material (i.e. nitrilic rubber, specification: penetration time: level 6, >480 min., thickness 0,9-1 mm; CE-certified acc. EN 374 cat III)

Skin protection

Chemical resistant safety shoes.
Take off immediately all contaminated clothing.
Thorough skin-cleansing after handling the product.
Set out skin protection guidelines.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Thermal hazards

Remove all sources of ignition.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light yellow
Odour:	characteristic
Odour threshold:	not determined

		Test method
Boiling point or initial boiling point and boiling range:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	not applicable	
Auto-ignition temperature:	not determined	
pH-Value (at 20 °C):	10,5	DIN 51369
Viscosity / kinematic: (at 20 °C)	75-100 mm²/s	ASTM D 7042

Vapour pressure:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	0,99 g/cm³	EN ISO 12185

9.2. Other information

Other safety characteristics

Pour point:	not determined
Viscosity / dynamic:	not determined

Further Information

pH 9,6 ; 5% Emulsion

SECTION 10: Stability and reactivity

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect against: heat.

10.5. Incompatible materials

The following must be prevented: Oxidizing agents, strong. acid.

10.6. Hazardous decomposition products

Hazardous decomposition products: none

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.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalativ Dampf) > 20 mg/l; ATE (inhalativ Staub/Nebel) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified				
	oral	LD50 5000 mg/kg	Rat	ECHA	OECD Guideline 420
770-35-4	1-phenoxypropan-2-ol				
	oral	LD50 > 2000 mg/kg	Rat		OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit		OECD 402
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine				
	oral	LD50 4680 mg/kg	Rat		OECD 401
	dermal	LD50 > 2000 mg/kg	Rabit		
68608-26-4	Sulfonic acids, petroleum, sodium salts				
	oral	LD50 > 5001 mg/kg	Rat	Echa	OECD Guideline 401
	dermal	LD50 > 5001 mg/kg	Rat	Echa	OECD Guideline 402
68511-37-5	Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates				
	oral	LD50 >2000 mg/kg	Rat		OECD 401
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated (<5 -9 EO)				
	oral	LD50 > 2000 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA	OECD 402
	inhalation (4 h) vapour	LC50 > 100 mg/l	Rat	ECHA	OECD 403
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl				
	oral	LD50 2733 mg/kg	Rat		OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit		OECD 402
157627-86-6	Alcohols, C13-15, branched and linear, ethoxylated				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rat		OECD 402
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether				
	oral	LD50 3305 mg/kg	Rat		
	dermal	LD50 2764 mg/kg	Rabit		
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 450 mg/kg			
	inhalation dust/mist	ATE 0,21 mg/l			
141-43-5	2-aminoethanol; ethanolamine				

	oral	LD50 mg/kg	1515	Rat		
	dermal	LD50 mg/kg	1025	Rabbit	IUCLID	
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
2682-20-4	2-methylisothiazol-3(2H)-one					
	oral	LD50 mg/kg	120-249	Rat	ECHA	EPA OPPTS 870.1100
	dermal	LD50 mg/kg	242	Rat	ECHA	Standard acute method
	inhalation vapour	ATE	0,5 mg/l			
	inhalation dust/mist	ATE	0,05 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.
Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

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.

Additional information on tests

No risks worthy of mention. Practical experience.
The statement is derived from the properties of the single components.
The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

11.2. Information on other hazards

Endocrine disrupting properties

Based on available data, the classification criteria are not met.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified						
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Dickkopfelritze		
	Acute algae toxicity	ErC50 mg/l	> 100		Grünalgen		
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna		
	Crustacea toxicity	NOEC mg/l	10,0	21 d	Daphnia magna		
770-35-4	1-phenoxypropan-2-ol						
	Acute fish toxicity	LC50	280 mg/l	96 h	Pimephales promelas(		OECD 203
	Acute algae toxicity	ErC50 mg/l	74,5	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50	370 mg/l	48 h	Daphnia magna		OECD 202
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine						
	Acute fish toxicity	LC50 mg/l	1466	96 h	Leuciscus idus		DIN38412
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella sub.		DIN 38412
	Acute crustacea toxicity	EC50	233 mg/l	48 h	Daphnia magna		EU C.2
	Algae toxicity	NOEC mg/l	6,25	3 d	Desmodesmus subspicatus		DIN 38412
68608-26-4	Sulfonic acids, petroleum, sodium salts						
	Acute fish toxicity	LC50 mg/l	> 10000	96 h	marine species		
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	freshwater algae		
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna		
68511-37-5	Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates						
	Acute fish toxicity	LC50	5,7 mg/l	96 h	Leuciscus idus (Goldorfe)		OECD 203
	Acute crustacea toxicity	EC50 mg/l	0,33	48 h	Daphnia magna (Großer Wasserfloh)		OECD 202
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated (<5 -9 EO)						
	Acute fish toxicity	LC50	108 mg/l	96 h	Danio rerio (zebrafish)	ECHA	OECD 203
	Acute algae toxicity	ErC50 mg/l	> 10	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50	51 mg/l	48 h	Daphnia magna	ECHA	
	Acute bacteria toxicity	EC50 mg/l ( )	>1000		Activated sludge		OECD 209
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl						
	Acute fish toxicity	LC50	4,5 mg/l	96 h	Danio rerio	Echa	
	Acute crustacea toxicity	EC50	2,7 mg/l	48 h	Daphnia magna		
	Acute bacteria toxicity	EC50 mg/l ( )	3,57	3 h	Pseudokirchneriella subcapitata		
157627-86-6	Alcohols, C13-15, branched and linear, ethoxylated						
	Acute fish toxicity	LC50 mg/l	1-10	96 h	Brachydanio rerio		OECD 203

	Acute algae toxicity	ErC50	0,1-1,0 mg/l	72 h	Scenedesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50	0,1-1,0 mg/l	48 h	Daphnia sp.		
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether						
	Acute fish toxicity	LC50	2500 mg/l	96 h	Leopomis macrochirus		static methode
	Acute algae toxicity	ErC50	> 100 mg/l	96 h	Scenedesmus subspicatus		static methode
	Acute crustacea toxicity	EC50	> 1000 mg/l	48 h	Daphnia magna		static methode
	Acute bacteria toxicity	EC50	> 1000 mg/l ( )				static methode 0,1d
141-43-5	2-aminoethanol; ethanolamine						
	Acute fish toxicity	LC50	150 mg/l	96 h	Oncorhynchus mykiss	IUCLID	
	Acute algae toxicity	ErC50	22 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50	65 mg/l	48 h	Daphnia magna		
2682-20-4	2-methylisothiazol-3(2H)-one						
	Acute fish toxicity	LC50	4,77 mg/l	96 h	Oncorhynchus mykiss	ECHA	OECD Guideline 203
	Acute algae toxicity	ErC50	0,157 mg/l	72 h	Grünalge	ECHA	
	Acute crustacea toxicity	EC50	0,934 mg/l	48 h	Daphnia magna	ECHA	OECD Guideline 202
	Algae toxicity	NOEC	0,05 mg/l	72 d	Pseudokirchneriella subcapitata		
	Crustacea toxicity	NOEC	0,044 mg/l	21 d	Daphnia magna	ECHA	OECD Guideline 211
	Acute bacteria toxicity	EC50	34,6 mg/l ( )	3 h	Bacteria		DIN 38412-3 (TTC-Test)

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified			
	OECD TG 301 B	30%	28	
	Inhärenter Schlamm	30 %	28	
770-35-4	1-phenoxypropan-2-ol			
	OECD 301 F	72%		
	Easily biodegradable (concerning to the criteria of the OECD)			
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine			
	OECD guideline 301 A	96%	18	
	readily biodegradable			
	OECD 302B	95%	14	
	inherently biodegradable			
	OECD 306	15%	63	
	not readily biodegradable			
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated (<5 -9 EO)			
	OECD 301 B	> 70 %	28	
	Product is biodegradable.			
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl			
	OECD 301D	75%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			
	OECD 301B	70-75 %	28	
	Easily biodegradable (concerning to the criteria of the OECD)			
157627-86-6	Alcohols, C13-15, branched and linear, ethoxylated			
	OECD 301A	90-100%		
	Easily biodegradable (concerning to the criteria of the OECD)			
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			
	OECD 301C / ISO 9408	89 %	28	
	Product is biodegradable.			
	OECD 302B	100 %	28	
	Product is biodegradable.			
	OECD TG 301 E	94 %	28	
	Product is biodegradable.			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
770-35-4	1-phenoxypropan-2-ol	1,41
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine	-1,16
68608-26-4	Sulfonic acids, petroleum, sodium salts	22,12
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated (<5 -9 EO)	6,13
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl	3,18
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	0,29
141-43-5	2-aminoethanol; ethanolamine	-1,91
2682-20-4	2-methylisothiazol-3(2H)-one	-0,486

BCF

CAS No	Chemical name	BCF	Species	Source
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine	0,7-3,2		
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl	22		

12.4. Mobility in soil

in delivery condition: liquid

12.5. Results of PBT and vPvB assessment

Based on available data, the classification criteria are not met.
none according to Regulation (EC) No. 1907/2006 (REACH)

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Completely emptied packings can be re-cycled. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

List of Wastes Code - used product

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

List of Wastes Code - contaminated packaging

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.
14.4. Packing group: No dangerous good in sense of these transport regulations.

Other applicable information (land transport)

Not restricted

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.
14.4. Packing group: No dangerous good in sense of these transport regulations.

Other applicable information (inland waterways transport)

Not restricted

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.
14.4. Packing group: -

Other applicable information (marine transport)
Not restricted

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.
14.4. Packing group: -

Other applicable information (air transport)
Not restricted

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user
Personal protection equipment: see section 8

14.7. Maritime transport in bulk according to IMO instruments
No data available

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 75

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): 1 - slightly hazardous to water

15.2. Chemical safety assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes
AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

Abbreviations and acronyms

Acute Tox. 2: Acute toxicity, hazard category 2
Acute Tox. 3: Acute toxicity, hazard category 3
Acute Tox. 4: Acute toxicity, hazard category 4
Asp. Tox. 1: Aspiration hazard, hazard category 1
Skin Corr. 1B: Skin corrosion, sub-category 1B
Skin Irrit. 2: Skin irritation, hazard category 2
Eye Dam. 1: Serious eye damage, hazard category 1
Eye Irrit. 2: Eye irritation, hazard category 2
Skin Sens. 1: Skin sensitisation, hazard category 1
Skin Sens. 1A: Skin sensitisation, hazard category 1A
Carc. 2: Carcinogenicity, hazard category 2
STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3
Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
Repr. - Reproduktionstoxizität
Asp. Tox. - Aspirationstoxizität
Acute Tox. - Akute Toxizität
Aquatic Acute - Akute aquatische Toxizität
Aquatic Chronic - Chronische aquatische Toxizität
Eye Dam. - Augenschaden/-reizung

Eye Irrit. - Augenreizung
Skin Corr. - Ätzwirkung auf die Haut
Skin Irrit. - Hautreizung
Skin Sens. - Hautallergen
Resp. Sens. - Inhalationsallergen
STOT SE - Spezifische Zielorgan-Toxizität - einmalige Exposition
STOT RE - Spezifische Zielorgan-Toxizität - wiederholte Exposition
VOC - Flüchtige organische Verbindungen

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

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)