

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 1 of 18

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Jokisch Migma Evio KGR

**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:	Jokisch GmbH	
	Germany	
Street:	Industriestraße 5	
Place:	D-33813 Oerlinghausen	
Telephone:	+49(0)5202/9734-0	Telefax: +49(0)5202/9734-49
E-mail:	info@jokisch-fluids.de	
Contact person:	Regulatory affairs	
E-mail:	MSDS@jokisch-fluids.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, 2-methylisothiazol-3(2H)-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**

Avoid release to the environment.

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

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 2 of 18

**Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
770-35-4	1-phenoxypropan-2-ol			5 - < 10 %
	212-222-7		01-2119486566-23	
	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			
68608-26-4	Sulfonic acids, petroleum, sodium salts			1 - < 2.5 %
	271-781-5		01-2119527859-22	
	Eye Irrit. 2; H319			
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			
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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 3 of 18

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

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
770-35-4	212-222-7	1-phenoxypropan-2-ol	5 - < 10 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 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	
68608-26-4	271-781-5	Sulfonic acids, petroleum, sodium salts	1 - < 2.5 %
		dermal: LD50 = > 5001 mg/kg; oral: LD50 = > 5001 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	
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); dermal: LD50 = > 2001 mg/kg; 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 unconsciousness 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. After contact with skin, wash immediately with plenty of water and soap. In case of troubles or persistent symptoms, consult an ophthalmologist.

**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 information available.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Water fog. Foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>).



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Jokisch Migma Evio KGR

Revision: 09.12.2025

Product code: 80

Page 4 of 18

#### 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 (NO<sub>x</sub>).

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>).

#### **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

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

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 absorption of humidity.

Recommended storage temperature: 5-40 °C

##### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 5 of 18

**Further information on storage conditions**

Maximum period of storage (time): 1 year

**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/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	
		3	7.6		STEL (15 min)	
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)	
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 6 of 18

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
770-35-4	1-phenoxypropan-2-ol			
Worker DNEL, long-term		inhalation	systemic	25,7 mg/m <sup>3</sup>
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
68608-26-4	Sulfonic acids, petroleum, sodium salts			
Worker DNEL, long-term		inhalation	systemic	0,66 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,33 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1667 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,833 mg/kg bw/day
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl			
Worker DNEL, long-term		inhalation	systemic	19,25 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	21,84 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,4 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,4 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/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,966 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,345 mg/kg bw/day
141-43-5	2-aminoethanol; ethanolamine			
Worker DNEL, long-term		inhalation	systemic	1 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,51 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,18 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,28 mg/m <sup>3</sup>
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/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
1310-58-3	potassium hydroxide; caustic potash			
Worker DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 7 of 18

2682-20-4	2-methylisothiazol-3(2H)-one			
Worker DNEL, long-term		inhalation	local	0,021 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	0,043 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,021 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	0,043 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,027 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0,053 mg/kg bw/day

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 8 of 18

**PNEC values**

CAS No	Substance	Value
Environmental compartment		
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
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,02 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
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		868700000 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
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
Micro-organisms in sewage treatment plants (STP)		1,03 mg/l
Soil		3 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
Micro-organisms 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
Micro-organisms in sewage treatment plants (STP)		0,23 mg/l

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Jokisch Migma Evio KGR

Revision: 09.12.2025

Product code: 80

Page 9 of 18

Soil	0,047 mg/kg
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### 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.

##### 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:	amber coloured
Odour:	characteristic

	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):	9,0 DIN 51369
Viscosity / kinematic: (at 20 °C)	77 mm <sup>2</sup> /s ASTM D 7042
Vapour pressure:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,01 g/cm <sup>3</sup> EN ISO 12185

### 9.2. Other information

#### Other safety characteristics

Pour point:	not determined
Viscosity / dynamic:	not determined

#### Further Information

Refraktometer 2,0

## SECTION 10: Stability and reactivity

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 10 of 18

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 11 of 18

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
770-35-4	1-phenoxypropan-2-ol				
	oral	LD50 > 2000 mg/kg	Rat		OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit		OECD 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
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
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
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 450 mg/kg			
	dermal	LD50 > 2001 mg/kg	Rat		
	inhalation dust/mist	ATE 0,21 mg/l			
141-43-5	2-aminoethanol; ethanolamine				
	oral	LD50 1515 mg/kg	Rat		
	dermal	LD50 1025 mg/kg	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 120-249 mg/kg	Rat	ECHA	EPA OPPTS 870.1100
	dermal	LD50 242 mg/kg	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, 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Jokisch Migma Evio KGR

Revision: 09.12.2025

Product code: 80

Page 12 of 18

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**

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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Jokisch Migma Evio KGR

Revision: 09.12.2025

Product code: 80

Page 13 of 18

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
770-35-4	1-phenoxypropan-2-ol					
	Acute fish toxicity	LC50 280 mg/l	96 h	Pimephales promelas(		OECD 203
	Acute algae toxicity	ErC50 74,5 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 370 mg/l	48 h	Daphnia magna		OECD 202
68511-37-5	Poly(oxy-1,2-ethanediy),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 0,33 mg/l	48 h	Daphnia magna (Großer Wasserfloh)		OECD 202
68608-26-4	Sulfonic acids, petroleum, sodium salts					
	Acute fish toxicity	LC50 > 10000 mg/l	96 h	marine species		
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	freshwater algae		
	Acute crustacea toxicity	EC50 > 1000 mg/l	48 h	Daphnia magna		
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 3,57 mg/l ( )	3 h	Pseudokirchneriella subcapitata		
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one					
	Acute fish toxicity	LC50 1,5 mg/l	96 h	Oncorhynchus mykiss		
	Acute algae toxicity	ErC50 0,108 mg/l	96 h	Algae		
	Acute crustacea toxicity	EC50 0,99 mg/l	48 h	Daphnia magne		
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	Pseudokirchneriella subcapitata		OECD Guideline 201

#### 12.2. Persistence and degradability

The product has not been tested.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 14 of 18

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
770-35-4	1-phenoxypropan-2-ol	OECD 301 F	72%		
	Easily biodegradable (concerning to the criteria of the OECD)				
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)				

**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
68608-26-4	Sulfonic acids, petroleum, sodium salts	22,12
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl	3,18
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	0,7
141-43-5	2-aminoethanol; ethanolamine	-1,91 (25°C)
2682-20-4	2-methylisothiazol-3(2H)-one	-0,486

**BCF**

CAS No	Chemical name	BCF	Species	Source
90-43-7	2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl	22		
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	6,95		

**12.4. Mobility in soil**

in delivery condition: liquid

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
none according to Regulation (EC) No. 1907/2006 (REACH)

**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**

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.  
Dispose of contents/container to an appropriate recycling or disposal facility. Consult the local waste disposal expert about waste disposal.

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Jokisch Migma Evio KGR

Revision: 09.12.2025

Product code: 80

Page 15 of 18

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.

#### 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

### 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.

#### 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.

#### 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)

No dangerous good in sense of these transport regulations.

#### 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:** -

#### 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

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 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Jokisch Migma Evio KGR

Revision: 09.12.2025

Product code: 80

Page 16 of 18

#### 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

This data sheet contains changes from the previous version in section(s): 2,11,15.

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 17 of 18

**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  
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  
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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KGR**

Revision: 09.12.2025

Product code: 80

Page 18 of 18

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.  
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.  
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, 2-methylisothiazol-3(2H)-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.)*