



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Jokisch Migma Evio DBG

Print date: 24.01.2017

Product code: 292

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

#### 1.1. Product identifier

Jokisch Migma Evio DBG

#### Further trade names

Old product name: Jokisch W1 OP Basic

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

##### Use of the substance/mixture

Watersoluble Metalworkingfluid

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

Company name:	Jokisch GmbH	
Street:	Industriestraße 5	
Place:	DE-33813 Oerlinghausen	
Telephone:	+49(0)5202/9734-0	Telefax: +49(0)5202/9734-49
e-mail:	info@jokisch-fluids.de	
Contact person:	Herr Sengenhoff	
e-mail:	MSDS@jokisch-fluids.de	
Internet:	www.jokisch-fluids.de	

#### 1.4. Emergency telephone number:

Giftnotruf Berlin: +49 (0) 30 / 30686 790

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No. 1272/2008

Hazard categories:  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Hazard Statements:  
Causes skin irritation.  
Causes serious eye irritation.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

**Signal word:** Warning**Pictograms:**

##### Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

##### Precautionary statements

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P321	Specific treatment (see information on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337+P313

If eye irritation persists: Get medical advice/attention.

**Special labelling of certain mixtures**

EUH208

Contains 2-n-butyl-benzo[d]isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

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

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
105-59-9	2,2'-(methylimino)diethanol, N-methyldiethanolamine			2.5 - < 5 %
	203-312-7	603-079-00-5		
	Eye Irrit. 2; H319			
122-99-6	2-phenoxyethanol			2.5 - < 5 %
	204-589-7	603-098-00-9		
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
10043-35-3	Boric acid			2.5 - < 5 %
	233-139-2	005-007-00-2		
	Repr. 1B; H360FD			
141-43-5	2-aminoethanol, ethanolamine			1 - < 2.5 %
	205-483-3	603-030-00-8		
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H332 H312 H302 H314			
141-43-5	Monoethanolamin (NEUTRALISIERTE)			1 - < 2.5 %
	205-483-3			
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H302 H312 H332			
68608-26-4	Natriumsulfonat			1 - < 2.5 %
	Eye Irrit. 2; H319			
61789-44-4	Rizinusöl-Fettsäure			0.1 - < 1 %
	Alkohole C13-C15			0.1 - < 1 %
	Eye Dam. 1, Aquatic Acute 1 (M-Factor = 10); H318 H400			
4299-07-4	2-n-butyl-benzo[d]isothiazol-3-one			0.1 - < 1 %
	420-590-7	606-079-00-3		
	Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H314 H317 H400 H410			
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one			< 0.1 %
	220-120-9	613-088-00-6		
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H302 H315 H318 H317 H400			

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

**Further Information**

Concentration BORIC ACID: &lt; 5%



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#### 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.

###### **After contact with skin**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

###### **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. In case of swallowing, keep the patient at rest and contact a doctor.

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

Treat symptomatically

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### **Suitable extinguishing media**

Water fog. Foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

###### **Unsuitable extinguishing media**

High power water jet.

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

Can be released in case of fire:

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

See protective measures under point 7 and 8.

##### 6.2. Environmental precautions

Contain and control the leaks or spills with noncombustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal

Do not empty into drains or the aquatic environment.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Large quantities remove mechanically

Clean contaminated objects and areas thoroughly observing environmental regulations. Clean with detergents.

Avoid solvent cleaners.

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling



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### Advice on safe handling

Use only in well-ventilated areas.  
Direct contact with skins avoid.  
When using do not eat, drink or smoke.

### Advice on protection against fire and explosion

Prevent access by unauthorised personnel.

### 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 dampness.  
Recommended storage temperature: 5-40 °C  
Maximum period of storage (time): 1 Jahr

### Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.  
Do not store with strong oxidizing agents.

### Further information on storage conditions

te regulations relating to storage premises apply to workshops where the product is handled.  
Maximum period of storage (time):

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	WEL
		3	7.6		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Protective and hygiene measures

Use personal protection equipment as per Directive 89/686/EEC.

#### Eye/face protection

Use glasses or face shield if there is a risk of splashing.

#### Hand protection

Protect skin by using skin protective cream.  
Wear protective gloves if advisable under safety aspects.  
Wash hands before breaks and at the end of 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 suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.



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#### SECTION 9: Physical and chemical properties

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

Physical state: liquid  
Colour:  
Odour: characteristic

##### Test method

pH-Value (at 20 °C): in aqueous solution 5% ;9,49 DIN 51369

##### Changes in the physical state

Flash point: 165 °C DIN 51755  
Ignition temperature: not determined  
Vapour pressure: not determined  
Density (at 20 °C): 1,02 g/cm<sup>3</sup> EN ISO 12185  
Viscosity / kinematic:  
(at 20 °C) 58 mm<sup>2</sup>/s ASTM D 7042

#### SECTION 10: Stability and reactivity

##### 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/none

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

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**Acute toxicity**

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
105-59-9	2,2'-(methylimino)diethanol, N-methyldiethanolamine			
	oral	LD50 4680 mg/kg	Rat	
122-99-6	2-phenoxyethanol			
	oral	LD50 1850 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rabbit	
141-43-5	2-aminoethanol, ethanolamine			
	oral	LD50 1515 mg/kg	Rat	
	dermal	LD50 1025 mg/kg	Rabbit	IUCLID
	inhalative vapour	ATE 11 mg/l		
	inhalative aerosol	ATE 1,5 mg/l		
141-43-5	Monoethanolamin (NEUTRALISIERT)			
	oral	ATE 500 mg/kg		
	dermal	ATE 1100 mg/kg		
	inhalative vapour	ATE 11 mg/l		
	inhalative aerosol	ATE 1,5 mg/l		
61789-44-4	Rizinusöl-Fettsäure			
	oral	LD50 >2000 mg/kg	RAT	
	Alkohole C13-C15			
	oral	LD50 >2000 mg/kg	RAT	
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one			
	oral	LD50 1020 mg/kg	RAT	

**Additional information on tests**

No risks worthy of mention. Practical experience.

The statement is derived from the properties of the components.

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**SECTION 12: Ecological information****12.1. Toxicity**

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
105-59-9	2,2'-(methylimino)diethanol, N-methyldiethanolamine				
	Acute fish toxicity	LC50 mg/l	1000 - 2200	96 h	Leuciscus idus
	Acute algae toxicity	ErC50	37 mg/l	72 h	Desmodesmus subspicatus
	Acute crustacea toxicity	EC50	233 mg/l	48 h	Daphnia magna
122-99-6	2-phenoxyethanol				
	Acute fish toxicity	LC50 mg/l	220 - 460	96 h	Leuciscus idus
	Acute algae toxicity	ErC50	> 500 mg/l	72 h	Scenedesmus sp.
	Acute crustacea toxicity	EC50	> 500 mg/l	48 h	Daphnia magna
141-43-5	2-aminoethanol, ethanolamine				
	Acute fish toxicity	LC50	150 mg/l	96 h	Onchorhynchus mykiss   IUCLID
	Acute algae toxicity	ErC50	22 mg/l	72 h	Desmodesmus subspicatus
	Acute crustacea toxicity	EC50	65 mg/l	48 h	Daphnia magna
	Alkohole C13-C15				
	Acute fish toxicity	LC50	1-10 mg/l	96 h	Brachydanio rerio
	Acute crustacea toxicity	EC50	0,1-1 mg/l	48 h	Aquatische Invertebraten

**12.2. Persistence and degradability**

Additional information: none/none

**12.3. Bioaccumulative potential**

Can be concentrated in organisms.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
105-59-9	2,2'-(methylimino)diethanol, N-methyldiethanolamine	-1,08
122-99-6	2-phenoxyethanol	1,16
10043-35-3	Boric acid	-1,09
141-43-5	2-aminoethanol, ethanolamine	-1,91 (25°C)

**12.4. Mobility in soil**

in delivery condition: liquid

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Completely emptied packings can be re-cycled. Waste disposal according to official state regulations.

**Waste disposal number of waste from residues/unused products**

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  
Classified as hazardous waste.

**SECTION 14: Transport information****Land transport (ADR/RID)****Other applicable information (land transport)**

Not a hazardous material with respect to these transportation regulations.



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### Inland waterways transport (ADN)

#### Other applicable information (inland waterways transport)

Not a hazardous material with respect to these transportation regulations.

### Marine transport (IMDG)

#### Other applicable information (marine transport)

Not a hazardous material with respect to these transportation regulations.

### Air transport (ICAO)

#### Other applicable information (air transport)

Not a hazardous material with respect to these transportation regulations.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

##### Additional information

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

##### National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

1 - slightly water contaminating

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,9.

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

H302	Harmful if swallowed.
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.
H332	Harmful if inhaled.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains 2-n-butyl-benzo[d]isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

### Further Information

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

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