

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KSR**

Revision date: 01.03.2019

Product code: 161

Page 1 of 9

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

Jokisch Migma Evio KSR

**Further trade names**

Old product name: Jokisch SKS

**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	
e-mail (Contact person):	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 Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

caustic potash, potassium hydroxide, Gemisch, neutralisiert

**Signal word:** Danger**Pictograms:****Hazard statements**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Jokisch Migma Evio KSR

Revision date: 01.03.2019

Product code: 161

Page 2 of 9

P310 present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.

### 2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## 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]			
1310-58-3	caustic potash, potassium hydroxide			20-50 %
	215-181-3	019-002-00-8	01-2119487136-33	
	Acute Tox. 4, Skin Corr. 1A, Eye Irrit. 2, Aquatic Chronic 3; H302 H314 H319 H412			
1310-58-3	KOH, neutralisiert			10 - < 15 %
	215-181-3		01-2119487136-33	
	Eye Dam. 1, Aquatic Chronic 3; H318 H412			
68603-58-7	Amines, C12-14-tert-alkyl, ethoxylated propoxylated			1-3 %
	614-636-7			
	Acute Tox. 4; H302			
025322-69-4	Propan-1,2-diol, propoxyliert (Polymer)			1- 3,0 %
	500-039-8		01-2119456809-23	
	Acute Tox. 4; H302			
31075-24-8	1,2-Ethanediamin, N',N',N',N',-tetramethyl-,polymer mit 1,1'-oxybis(2-chloroethan)			0,1-1 %
	608-578-1			
	Acute Tox. 4, Acute Tox. 4, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H332 H302 H400 H410			

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. First aider: Pay attention to self-protection!

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

Remove contaminated, saturated clothing immediately. 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.

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

IF INHALED: Avoid the formation of aerosol. Do not breathe aerosol. Frequently or prolonged contact with skin



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Jokisch Migma Evio KSR

Revision date: 01.03.2019

Product code: 161

Page 3 of 9

may cause dermal irritation. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation). Causes serious eye damage. May be fatal if swallowed and enters airways.

#### **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**

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.

#### **Additional information**

In case of fire and/or explosion do not breathe fumes. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

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

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

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. Provide adequate ventilation.

#### **6.2. Environmental precautions**

Avoid release to the environment.

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 allow to enter into surface water or drains.

#### **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 articles and floor according to the environmental legislation. Clean with detergents. Avoid solvent cleaners.

#### **6.4. Reference to other sections**

Personal protection equipment: see section 8 Safe handling: see section 7

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

#### **7.1. Precautions for safe handling**

##### **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.

Fire class 2

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KSR**

Revision date: 01.03.2019

Product code: 161

Page 4 of 9

**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  
Maximum period of storage (time): 1 year

**Advice on storage compatibility**

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

**Further information on storage conditions**

the regulations relating to storage premises apply to workshops where the product is handled.  
Protect against direct sunlight.

**7.3. Specific end use(s)**

Observe instructions for use.

**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
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

**Additional advice on limit values**

not applicable

**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 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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KSR**

Revision date: 01.03.2019

Product code: 161

Page 5 of 9

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	yellow
Odour:	characteristic

pH-Value (at 20 °C):

in aqueous solution 5% ; 9,1

**Test method**

DIN 51369

**Changes in the physical state**

Flash point:	not applicable
Ignition temperature:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,13 g/cm <sup>3</sup> DIN 51757
Viscosity / kinematic: (at 20 °C)	34 mm <sup>2</sup> /s ASTM D 7042

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

Keep away from: Strong acid , Oxidizing agents, strong. Strong alkali

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Protect against: Frost, heat.

**10.5. Incompatible materials**

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

**10.6. Hazardous decomposition products**

Hazardous decomposition products: Carbon dioxide. Carbon monoxide

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Harmful if swallowed.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KSR**

Revision date: 01.03.2019

Product code: 161

Page 6 of 9

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50 301 mg/kg	Rat	RTECS	
68603-58-7	Amines, C12-14-tert-alkyl, ethoxylated propoxylated				
	oral	LD50 >1270 mg/kg	Rat		
	dermal	LD50 > 16000 mg/kg	Rabbit		
025322-69-4	Propan-1,2-diol, propoxyliert (Polymer)				
	oral	LD50 1000-2000 mg/kg	Rat		
	dermal	LD50 >10000 mg/kg	Rabbit		
31075-24-8	1,2-Ethanediamin, N',N',N',N',-tetramethyl-,polymer mit 1,1'-oxybis(2-chloroethan)				
	oral	LD50 1951 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 2,9 mg/l	Rat		

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye damage.

**Sensitising effects**

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

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

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

**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.

**Further information**

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KSR**

Revision date: 01.03.2019

Product code: 161

Page 7 of 9

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1310-58-3	caustic potash, potassium hydroxide					
	Acute fish toxicity	LC50 80 mg/l	96 h	Gambusia affinis	IUCLID	
68603-58-7	Amines, C12-14-tert-alkyl, ethoxylated propoxylated					
	Acute fish toxicity	LC50 412 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 660-1056 mg/l	48 h	Daphnia magna		
025322-69-4	Propan-1,2-diol, propoxyliert (Polymer)					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Pimephales promelas (fathead minnow)		
31075-24-8	1,2-Ethanediamin, N',N',N',N',-tetramethyl-,polymer mit 1,1'-oxybis(2-chloroethan)					
	Acute fish toxicity	LC50 0,047 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50 0,37 mg/l	48 h	Daphnia magna		
	Fish toxicity	NOEC 0,037 mg/l	4 d	Oncorhynchus mykiss (Rainbow trout)		
	Algae toxicity	NOEC 0,0019 mg/l	5 d	Selenastrum capricornutum		
	Crustacea toxicity	NOEC 0,08 mg/l	2 d	Daphnia magna		

**12.2. Persistence and degradability**

Additional information: none

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
68603-58-7	Amines, C12-14-tert-alkyl, ethoxylated propoxylated				
	OECD 301 F	< 60 %	28		
025322-69-4	Propan-1,2-diol, propoxyliert (Polymer)				
	OECD 301	87 %	28		
	Easily biodegradable (concerning to the criteria of the OECD)				

**12.3. Bioaccumulative potential**

Can be concentrated in organisms.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
025322-69-4	Propan-1,2-diol, propoxyliert (Polymer)	< 3

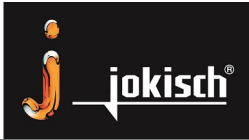
**12.4. Mobility in soil**

in delivery condition: liquid

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

Completely emptied packings can be re-cycled. Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains.

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Jokisch Migma Evio KSR

Revision date: 01.03.2019

Product code: 161

Page 8 of 9

120110 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; synthetic machining oils; hazardous waste

#### SECTION 14: Transport information

##### Land transport (ADR/RID)

**14.1. UN 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:** 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:** 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:** -

##### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN 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)

No dangerous good in sense of these transport regulations.

##### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

##### 14.6. Special precautions for user

SECTION 6: Accidental release measures  
Personal protection equipment: see section 8

##### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

none Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### SECTION 15: Regulatory information

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

###### EU regulatory information

2010/75/EU (VOC): 0  
2004/42/EC (VOC): 0

###### 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



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Migma Evio KSR**

Revision date: 01.03.2019

Product code: 161

Page 9 of 9

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.

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