



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Jokisch Migma Rino PGG

Print date: 24.01.2017

Product code: 257

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

#### 1.1. Product identifier

Jokisch Migma Rino PGG

#### Further trade names

Alte Bezeichnung: Jokisch Presswasserzusatz F

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

##### Use of the substance/mixture

Antifreeze fluid

#### 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:

Acute toxicity: Acute Tox. 4

Hazard Statements:

Harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure.

#### 2.2. Label elements

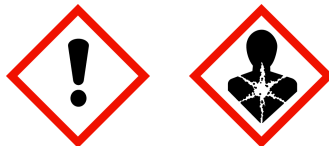
##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

ethanediol, ethylene glycol

Signal word: Warning

Pictograms:



##### Hazard statements

H302

Harmful if swallowed.

H373

May cause damage to organs through prolonged or repeated exposure.

##### Precautionary statements

P270

Do not eat, drink or smoke when using this product.

P301+P312

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330

Rinse mouth.

P501

Dispose of contents/container to hazardous or special waste.

### SECTION 3: Composition/information on ingredients



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### 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]			
107-21-1	ethanediol, ethylene glycol			50 - < 100 %
	203-473-3	603-027-00-1		
	Acute Tox. 4; H302			

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated clothing immediately and dispose off safely. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

#### After inhalation

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

#### After contact with skin

Wash up with warm water

#### 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

Rinse mouth immediately and drink large quantities of water. If swallowed, do not induce vomiting: seek medical advice immediately and show this container label.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray. alcohol resistant foam.

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

Explosive dust-air mixtures may form. 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

Use water spray/stream to protect personnel and to cool endangered containers. 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

See protective measures under point 7 and 8.

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

Do not allow to enter into soil/subsoil. Use a water spray jet to knock down vapours/gases/mists.



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

Provide adequate ventilation.

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

Waste disposal according to official state regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

Avoid the formation of aerosol. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

#### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Temperature class: T3 (DIN VDE 0165)

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place.

#### **Advice on storage compatibility**

none/none

#### **Further information on storage conditions**

Keep container tightly closed.

Keep in a cool, well-ventilated place.

## 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
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

### 8.2. Exposure controls

#### **Protective and hygiene measures**

Keep away from food, drink and animal feedingstuffs.

#### **Eye/face protection**

Wear eye/face protection.

#### **Hand protection**

Wear protective gloves. Before using check leak tightness / impermeability.

Suitable gloves type: Butyl rubber. NBR (Nitrile rubber). FKM (fluororubber). In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

The selection of a suitable glove depends not only on the material but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials can not be calculated in advance and has therefore to be tested before use

#### **Skin protection**

Wear suitable protective clothing.

#### **Respiratory protection**

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of work. Avoid contact with skin and eyes.



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### SECTION 9: Physical and chemical properties

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

Physical state: liquid  
Colour: yellow

#### Test method

pH-Value (at 20 °C): 8-10

#### Changes in the physical state

Melting point: -30 °C

Initial boiling point and boiling range: 190 °C

Flash point: 116 °C

Lower explosion limits: 3,2 vol. %

Upper explosion limits: 53 vol. %

Ignition temperature: 410 °C

Vapour pressure:  
(at 20 °C) 0,053 hPa

Density (at 20 °C): 1,15 g/cm<sup>3</sup>

Water solubility: complete miscible

Viscosity / dynamic:  
(at 20 °C) 24 mPa·s

### SECTION 10: Stability and reactivity

#### 10.4. Conditions to avoid

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

Exothermic reactions with: Alkalis (alkalis). In use, may form flammable/explosive vapour-air mixture.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### ATEmix calculated

ATE (oral) 833,3 mg/kg

#### Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
107-21-1	ethanediol, ethylene glycol			
	oral	ATE 500 mg/kg		
	dermal	LD50 10600 mg/kg	Rabbit	GESTIS

#### Irritation and corrosivity

Irritant effect on the skin: mild irritant. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Irritant effect on the eye: mild irritant.

#### Sensitising effects

none/none



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### SECTION 12: Ecological information

#### 12.1. Toxicity

Degree of elimination: 90%

Easily biodegradable (concerning to the criteria of the OECD)

#### 12.3. Bioaccumulative potential

##### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	ethanediol, ethylene glycol	-1,36

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

##### Contaminated packaging

Waste disposal according to official state regulations.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.2. UN proper shipping name:** Not a hazardous material with respect to these transportation regulations.

##### Other applicable information (land transport)

Not a hazardous material with respect to these transportation regulations.

#### 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

##### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

### SECTION 16: Other information

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

H302 Harmful if swallowed.  
H373 May cause damage to organs through prolonged or repeated exposure.

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