



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Evio KGY

Print date: 24.01.2017

Product code: 10

Page 1 of 6

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

1.1. Product identifier

Jokisch Migma Evio KGY

Further trade names

Old product name: Jokisch Hyper DK 12

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:

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

May cause an allergic skin reaction.

Causes serious eye irritation.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol; 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine

2-n-butyl-benzo[d]isothiazol-3-one

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Jokisch Migma Evio KGY

Print date: 24.01.2017

Product code: 10

Page 2 of 6

P362+P364
P501Take off contaminated clothing and wash it before reuse.
Dispose of contents/container to hazardous or special waste.**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]			
4719-04-4	2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol; 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine			2.5 - < 5 %
	225-208-0	613-114-00-6		
	Acute Tox. 4, Skin Sens. 1; H302 H317			
	Ethanolamin			1 - < 2.5 %
	205-483-3		01-2119486455-28	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
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			
10043-35-3	boric acid (neutralized)			< 5%

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

Further Information

Concentration BORIC ACID: <5,5%

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**



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Evio KGY

Print date: 24.01.2017

Product code: 10

Page 3 of 6

Suitable extinguishing mediaWater 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

Can be released in case of fire:

Nitrogen oxides (NO_x).

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**

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****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

All regulations relating to storage premises apply to workshops where the product is handled.

Maximum period of storage (time):

SECTION 8: Exposure controls/personal protection



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Evio KGY

Print date: 24.01.2017

Product code: 10

Page 4 of 6

8.1. Control parameters

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	orange
Odour:	characteristic

pH-Value (at 20 °C):

Test method
in aqueous solution 5% ; 9,2 DIN 51369

Changes in the physical state

Flash point:	not applicable
Ignition temperature:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,1 g/cm ³ EN ISO 12185
Viscosity / kinematic: (at 20 °C)	20,5 mm ² /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

**Safety Data Sheet**

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Jokisch Migma Evio KGY

Print date: 24.01.2017

Product code: 10

Page 5 of 6

Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
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	oral	ATE 500 mg/kg		
10043-35-3	boric acid (neutralized)			
	oral	LD50 3000-4000 mg/kg	Rat	
	dermal	LD50 2000 mg/kg	Rabbit	

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**

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
	Ethanolamin				
	Acute fish toxicity	LC50 1000 mg/l	96 h		
	Acute crustacea toxicity	EC50 1000 mg/l	48 h		
10043-35-3	boric acid (neutralized)				
	Acute fish toxicity	LC50 1,02 mg/l	96 h	Fish	
	Acute crustacea toxicity	EC50 658-875 mg/l	48 h	Crustacea	

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
4719-04-4	2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol; 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine	-1,15

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.

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



Safety Data Sheet

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Jokisch Migma Evio KGY

Print date: 24.01.2017

Product code: 10

Page 6 of 6

Other applicable information (land transport)

Not restricted

Inland waterways transport (ADN)**Other applicable information (inland waterways transport)**

Not restricted

Marine transport (IMDG)**Other applicable information (marine transport)**

Not restricted

Air transport (ICAO)**Other applicable information (air transport)**

Not restricted

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**EU regulatory information**

2004/42/EC (VOC): 7,868 % (86,548 g/l)

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.
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.
H400	Very toxic to aquatic life.
H410	Very toxic 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.)