



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 1 of 13

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

1.1. Product identifier

Jokisch Migma Tano DPR

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 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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Special labelling of certain mixtures

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 2 of 13

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 3 of 13

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64742-56-9	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic			15 - < 20 %
	265-159-2		01-2119480132-48	
	Asp. Tox. 1; H304			
102-71-6	Triethanolamin			2.5 - < 5 %
	203-049-8		01-2119486482-31	
10043-35-3	Borsäure (neut.)			2.5 - < 5 %
	233-139-2	005-007-00-2	01-2119486683-25	
	Repr. 1B; H360FD			
57-55-6	1,2-Propylenglykol			2.5 - < 5 %
	200-338-0		01-2119456809-23	
68920-66-1	Fettalkoholpolyglykoether			1 - < 2.5 %
			01-2119489407-26	
	Skin Irrit. 2, Aquatic Chronic 2; H315 H411			
141-43-5	2-aminoethanol, ethanolamine			1 - < 2.5 %
	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, STOT SE 3, Aquatic Chronic 3; H332 H312 H302 H314 H318 H335 H412			
68608-26-4	Natriumsulfonat			1 - < 2.5 %
	271-781-5		01-2119527859-22	
	Eye Irrit. 2; H319			
141-43-5	Monoethanolamin (NEUTRALISIERT)			1 - < 2.5 %
	205-483-3		01-2119486455-28	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H332 H312 H302			
	Fettsäure, ethoxiliert			0.1 - < 1 %
80584-91-4	6,6'-((1,3,5-triazin-2,4,6-triyltriimino) trihexansäure			0.1 - < 1 %
	279-505-5		01-2119972341-40	
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt			0.1 - < 1 %
	223-296-5		01-2119493385-28	
	Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1 (M-Factor = 100), Aquatic Chronic 2; H332 H302 H318 H400 H411			
39464-70-5	Poly(oxy-1,2-ethanediol)-phenyl-hydroxyphosphat			< 0.1 %
			01-2120771013-65	
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one			< 0.1 %
	220-120-9	613-088-00-6	01-2120761540-60	

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 4 of 13

	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 2; H302 H315 H318 H317 H400 H411	
25322-68-3	Polyethylene glycol (Polymer)	< 0.1 %
61789-44-4	destillierte Rizinusölfettsäure (Nicht registrierungspflichtig)	< 0.1 %
	263-060-9	

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.

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

No data available

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 (CO₂).

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_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,



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 5 of 13

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

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.
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 humidity.
Recommended storage temperature: 5-30 °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.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	WEL
		3	7.6		STEL (15 min)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

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



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 6 of 13

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light yellow
Odour:	characteristic

pH-Value (at 20 °C):	in aqueous solution 5% = 9,5	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 g/cm ³ EN ISO 12185
Viscosity / kinematic: (at 20 °C)	110 mm ² /s ASTM D 7042

9.2. Other information

Refaktometer 1,7

SECTION 10: Stability and reactivity

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

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



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 7 of 13

SECTION 11: Toxicological information

11.1. Information on toxicological effects



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 8 of 13

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-56-9	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic				
	oral	LD50 > 5000 mg/kg	RAT		
	dermal	LD50 >5000 mg/kg	RABBIT		
	inhalation (4 h) aerosol	LC50 >5 mg/l			
102-71-6	Triethanolamin				
	oral	LD50 5530 mg/kg	RAT		
	dermal	LD50 > 2000 mg/kg	RABBIT		
10043-35-3	Borsäure (neut.)				
	oral	LD50 2660 mg/kg	Rat		
	dermal	LD50 > 2001 mg/kg	Rabbit		OECD 402
57-55-6	1,2-Propylenglykol				
	oral	LD50 >22000 mg/kg	Ratte		
	dermal	LD50 >2001 mg/kg	Rabbit		
68920-66-1	Fettalkoholpolyglykoether				
	oral	LD50 > 2000 mg/kg	Rat		CESIO
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 aerosol	ATE 1,5 mg/l			
141-43-5	Monoethanolamin (NEUTRALISIERT)				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			
	Fettsäure, ethoxyliert				
	oral	LD50 >2000 mg/kg	RAT		
80584-91-4	6,6'-(1,3,5-triazin-2,4,6-triyltriimino) trihexansäure				
	oral	LD50 >2000 mg/kg	Ratte		
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt				
	oral	LD50 500 mg/kg	Rat		

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 9 of 13

	dermal	LD50 mg/kg	4500			
	inhalation vapour	ATE	11 mg/l			
	inhalation (4 h) aerosol	LC50	2,7 mg/l			
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one					
	oral	LD50 mg/kg	597	Rat		
	dermal	LD50 mg/kg	> 2001	Rat		
25322-68-3	Polyethylene glycol (Polymer)					
	oral	LD50 mg/kg	>2000	RAT		
	dermal	LD50 mg/kg	>2000	RABBIT		
61789-44-4	destillierte Rizinusölfettsäure (Nicht registrierungspflichtig)					
	oral	LD50 mg/kg	>2000	RAT		

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).

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



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 10 of 13

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
102-71-6	Triethanolamin					
	Acute fish toxicity	LC50 mg/l	11800	96 h	Pimephales Promelas	
	Acute crustacea toxicity	EC50 mg/l	2038	48 h	Großer Wasserfloh	24h
10043-35-3	Borsäure (neut.)					
	Acute fish toxicity	LC50 mg/l	1020	96 h	Carassius auratus (goldfish)	
	Acute algae toxicity	ErC50	229 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	760 mg/l	48 h	Daphnia magna (Big water flea)	
57-55-6	1,2-Propylenglykol					
	Acute fish toxicity	LC50 mg/l	40613	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50 mg/l	18800	48 h	Mysidopsis bahia	
68920-66-1	Fettalkoholpolyglykoether					
	Acute fish toxicity	LC50 mg/l	10-100	96 h	Brachydanio rerio (zebra-fish)	OECD 203
	Acute bacteria toxicity	>10000 mg/l)				OECD 209
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	
	Fettsäure, ethoxyliert					
	Acute fish toxicity	LC50	86 mg/l	96 h	Goldorfe	DIN 38412 T.15
80584-91-4	6,6',6''-(1,3,5-triazin-2,4,6-triyltriimino) trihexansäure					
	Acute fish toxicity	LC50 mg/l	>1000	96 h		
	Acute crustacea toxicity	EC50 mg/l	>180	48 h		
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one					
	Acute fish toxicity	LC50 mg/l	0,74	96 h		

12.2. Persistence and degradability

Additional information: none

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 11 of 13

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
57-55-6	1,2-Propylenglykol				
		CO ₂ -Entwicklung OECD 301 F	81 %		
68920-66-1	Fettalkoholpolyglykoether				
		OECD 301 B	> 70 %	28	
		Product is biodegradable.			
	Fettsäure, ethoxyliert				
		OECD 301 E	95 %	28	
		leicht biologisch abbaubar			

12.3. Bioaccumulative potential

Can be concentrated in organisms.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
102-71-6	Triethanolamin	-2,53
10043-35-3	Borsäure (neut.)	-1,09
141-43-5	2-aminoethanol, ethanolamine	-1,91 (25°C)
80584-91-4	6,6',6''-(1,3,5-triazin-2,4,6-triyltriimino) trihexansäure	3,74
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	1,4

12.4. Mobility in soil

in delivery condition: liquid

12.5. Results of PBT and vPvB assessment

none according to Regulation (EC) No. 1907/2006 (REACH)

12.6. Other adverse effects

No data available

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.
Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment

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; hazardous waste

Waste disposal number of 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

Waste disposal number of contaminated packaging

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

Contaminated packaging

Empty container completely. Keep labels on container. Recommended cleaning agent: water
Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 12 of 13

company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment

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.**Other applicable information (land transport)**

Not restricted

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.**Other applicable information (inland waterways transport)**

Not restricted

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:** -**Other applicable information (marine transport)**

Not restricted

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)**

Not restricted

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Personal protection equipment: see section 8

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

No data available

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Borsäure (neut.)

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Jokisch Migma Tano DPR

Revision date: 01.03.2019

Product code: 760

Page 13 of 13

Restrictions on use (REACH, annex XVII):

Entry 3: 2-aminoethanol, ethanolamine

Entry 28: Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic

Entry 30: Borsäure (neut.)

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):

2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Triethanolamin

Fettalkoholpolyglykolether

Polyethylene glycol (Polymer)

destillierte Rizinusölfettsäure (Nicht registrierungspflichtig)

SECTION 16: Other information**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H335	May cause respiratory irritation.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 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.)