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

1.1. Product identifier
Jokisch Monos Atos M4B

Further trade names
Old product name: Jokisch Spezial Schneidöl S 94

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Cutting oil

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
Fax: +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
This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements
Additional advice on labelling
No marking required according to 1999/45/EC, appendix V B, No. 9.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>tris(2-ethylhexyl) phosphate</td>
<td>2.5 - &lt; 5 %</td>
</tr>
<tr>
<td>78-42-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>201-116-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2; H315</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzolsulfonsäuren, di-C10-18-alkyl Derivate, Calcium-Salze</td>
<td>0.1 - &lt; 1 %</td>
</tr>
<tr>
<td>93820-57-6</td>
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<tr>
<td>298-637-4</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, Aquatic Chronic 3; H315 H412</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Baseoil - unspecified, Distillates (petroleum), hydrotreated light naphthenic</td>
<td>0.1 - &lt; 1 %</td>
</tr>
<tr>
<td>64742-53-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>265-156-6</td>
<td></td>
<td>01-2119480375-34</td>
</tr>
<tr>
<td></td>
<td>Asp. Tox. 1; H304</td>
<td></td>
</tr>
</tbody>
</table>

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
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

Unsuitable extinguishing media
High power water jet.

5.2. Special hazards arising from the substance or mixture
Can be released in case of fire:
- Carbon dioxide (CO2).
- Carbon monoxide.
- Nitrogen oxides (NOx).

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

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
Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

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.

6.4. Reference to other sections
Refer to chapter 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
**Safety Data Sheet**

Jokisch GmbH

according to Regulation (EC) No 1907/2006

**Jokisch Monos Atos M4B**

Print date: 25.01.2017  
Product code: 51  
Page 3 of 6

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**Advice on safe handling**

Avoid oil mist

Use only in well-ventilated areas. Direct contact with skins avoid.

When using do not eat, drink or smoke.

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**Advice on protection against fire and explosion**

Prevent access by unauthorised personnel.

---

**Further information on handling**

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

**Advice on storage compatibility**

- Keep away from food, drink and animal feeding stuffs.
- Do not store with strong oxidizing agents.
- Maximum period of storage (time): 3 Jahre / Years / Jaar

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### 7.3. Specific end use(s)

refer to chapter 1.2

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### SECTION 8: Exposure controls/personal protection

**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:** yellow brown

**Odour:** characteristic

**Test method**

**pH-Value:** not determined

**Changes in the physical state**

**Melting point:** not determined
Initial boiling point and boiling range: not determined
Sublimation point: not determined
Flash point: >180 °C DIN EN 57

Flammability
Solid: not determined
Gas: not determined

Lower explosion limits: 0,6 vol. %
Upper explosion limits: 6,5 vol. %

Auto-ignition temperature
Solid: not determined
Gas: not determined

Decomposition temperature: not determined

Oxidizing properties
No information available.
Vapour pressure: not determined
(at 20 °C)
Vapour pressure: not determined
Density (at 20 °C): 0,9 g/cm³ ASTM D 1298
Bulk density: not determined
Partition coefficient: No information available.
Viscosity / dynamic: not determined
Viscosity / kinematic: 34 mm²/s ASTM D 445
(at 40 °C)
Flow time: not determined
Vapour density: not determined

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
No information available.

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
Jokisch GmbH

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Monos Atos M4B

Print date: 25.01.2017

Page 5 of 6

Product code: 51

Acute toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>78-42-2</td>
<td>tris(2-ethylhexyl) phosphate</td>
<td>oral</td>
<td>LD50</td>
<td>37000 mg/kg</td>
<td>RAT</td>
</tr>
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<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>20000 mg/kg</td>
<td>RABBIT</td>
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<tr>
<td>64742-53-6</td>
<td>Baseoil - unspecified, Distillates (petroleum), hydrotreated light naphthenic</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000 mg/kg</td>
<td>Rabbit</td>
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<tr>
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<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;5000 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapour</td>
<td>LC50</td>
<td>&gt;5 mg/l</td>
<td>Rat</td>
</tr>
</tbody>
</table>

Additional information on tests

No risks worthy of mention. Practical experience.
The statement is derived form 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

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

in delivery condition: liquid

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal number of waste from residues/unused products
120107  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; mineral-based machining oils free of halogens (except emulsions and solutions) Classified as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not restricted

Not a hazardous material with respect to these transportation regulations.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not restricted

Not a hazardous material with respect to these transportation regulations.

Marine transport (IMDG)

Other applicable information (marine transport)

Not restricted

Not a hazardous material with respect to these transportation regulations.
Air transport (ICAO)

Other applicable information (air transport)
Not restricted
Not a hazardous material with respect to these transportation regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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

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

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes
This data sheet contains changes from the previous version in section(s): 1,7,9.

Relevant H and EUH statements (number and full text)

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.

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.)