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

1.1. Product identifier
Jokisch Monos Atos N3S

Further trade names
Old product name: Jokisch Spezial Schneidöl S 91

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

Uses advised against
No information available.

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

2.2. Label elements

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Further Information
The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

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
- Water fog
- Extinguishing powder
- Carbon dioxide
- Foam

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
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.

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 feedingstuffs.
Do not store with strong oxidizing agents.
Maximum period of storage (time): 3 Jahr

7.3. Specific end use(s)
refer to chapter 1.2

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. nitrile 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

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>amber coloured</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

pH-Value: not applicable

Changes in the physical state

<table>
<thead>
<tr>
<th>Melting point:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>not determined</td>
</tr>
<tr>
<td>Sublimation point:</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt;180 °C DIN EN 57</td>
</tr>
</tbody>
</table>

Flammability

| Solid:           | not determined             |
| Gas:             | not determined             |

Explosive properties
No information available.

| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

Auto-ignition temperature

Test method
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

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
120119 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; readily biodegradable machining oil
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
2004/42/EC (VOC): 0,3 % (2,7 g/l)

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): 1,9.

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.)