# Safety Data Sheet

**Jokisch Universal KSS**

according to Regulation (EC) No 1907/2006

<table>
<thead>
<tr>
<th>Jokisch GmbH</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Company name:</td>
<td>Jokisch GmbH</td>
<td></td>
</tr>
<tr>
<td>Street:</td>
<td>Industriestraße 5</td>
<td></td>
</tr>
<tr>
<td>Place:</td>
<td>DE-33813 Oerlinghausen</td>
<td></td>
</tr>
<tr>
<td>Telephone:</td>
<td>++49(0)5202/9734-0</td>
<td>Telefax: ++49(0)5202/9734-49</td>
</tr>
<tr>
<td>e-mail:</td>
<td><a href="mailto:info@jokisch-fluids.de">info@jokisch-fluids.de</a></td>
<td></td>
</tr>
<tr>
<td>Contact person:</td>
<td>Herr Sengenhoff</td>
<td></td>
</tr>
<tr>
<td>e-mail:</td>
<td><a href="mailto:MSDS@jokisch-fluids.de">MSDS@jokisch-fluids.de</a></td>
<td></td>
</tr>
<tr>
<td>Internet:</td>
<td><a href="http://www.jokisch-fluids.de">www.jokisch-fluids.de</a></td>
<td></td>
</tr>
</tbody>
</table>

**1.4. Emergency telephone number:**

Giftnotruf Berlin: +49 (0) 30 / 30686 790

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

### 1.1. Product identifier

Jokisch Universal KSS

### 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

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

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

**Signal word:** Warning

**Pictograms:** GHS07

**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.
- P311 Specific treatment (see information on this label).
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>CAS No</th>
<th>Classification according to Directive 67/548/EEC</th>
<th>Index No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>265-159-2</td>
<td>Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>64742-56-9</td>
<td>Asp. Tox. 1; H304</td>
<td></td>
<td></td>
<td></td>
<td>75 - &lt; 80 %</td>
</tr>
<tr>
<td>01-2119480132-48</td>
<td>Natriumsulfonat</td>
<td>68608-26-4</td>
<td>Xi - Irritant R36</td>
<td></td>
<td></td>
<td></td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>68511-37-5</td>
<td>Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates</td>
<td>603-098-00-0</td>
<td>Acute Tox. 4, Eye Irrit. 2; H302 H319</td>
<td></td>
<td></td>
<td></td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>204-589-7</td>
<td>2-phenoxyethanol</td>
<td>122-99-6</td>
<td>Xn - Harmful, Xi - Irritant R22-36</td>
<td></td>
<td></td>
<td></td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>203-961-6</td>
<td>2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>Xi - Irritant R36</td>
<td></td>
<td></td>
<td></td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>223-296-5</td>
<td>pyridine-2-thiol 1-oxide, sodium salt</td>
<td>3811-73-2</td>
<td>Xn - Harmful, Xi - Irritant R22-36</td>
<td></td>
<td></td>
<td></td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>220-120-9</td>
<td>1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one</td>
<td>2634-33-5</td>
<td>Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1); H302 H315 H318 H317 H400</td>
<td></td>
<td></td>
<td></td>
<td>&lt; 0.1 %</td>
</tr>
<tr>
<td>613-088-00-06</td>
<td>Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1); H302 H315 H318 H317 H400</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases: see section 16.

### Further Information

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- **P337+P313**: Present and easy to do. Continue rinsing.
- **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.
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:
- Nitrogen oxides (NOx).
- 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
The regulations relating to storage premises apply to workshops where the product is handled.
Maximum period of storage (time):

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibre/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-34-5</td>
<td>2-(2-Butoxyethoxy)ethanol</td>
<td>10</td>
<td>67.5</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
<td>101.2</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>64742-56-9</td>
<td>Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td></td>
<td></td>
<td>5</td>
<td>TWA (8 h)</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>dark brown</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH-Value (at 20 °C):</td>
<td>8.9</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>Density (at 20 °C):</td>
<td>0.883 g/cm³</td>
</tr>
<tr>
<td>Viscosity / kinematic:</td>
<td>66 mm²/s</td>
</tr>
</tbody>
</table>

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
### Acute Toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>64742-56-9</td>
<td>Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 5000 mg/kg</td>
<td>RAT</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 5000 mg/kg</td>
<td>RABBIT</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50</td>
<td>&gt;5 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>68511-37-5</td>
<td>Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>Ratte</td>
<td></td>
</tr>
<tr>
<td>122-99-6</td>
<td>2-phenoxethanol</td>
<td>oral</td>
<td>LD50</td>
<td>1850 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td>112-34-5</td>
<td>2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether</td>
<td>oral</td>
<td>LD50</td>
<td>5660 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>4120 mg/kg</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td>3811-73-2</td>
<td>pyridine-2-thiol 1-oxide, sodium salt</td>
<td>oral</td>
<td>LD50</td>
<td>500 mg/kg</td>
<td>Rat.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>4500 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative vapour</td>
<td>ATE</td>
<td>11 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50</td>
<td>2.7 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2634-33-5</td>
<td>1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one</td>
<td>oral</td>
<td>LD50</td>
<td>1020 mg/kg</td>
<td>RAT</td>
<td></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

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>68511-37-5</td>
<td>Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>5,7 mg/l</td>
<td>Goldorfe</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>0,33 mg/l</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>122-99-6</td>
<td>2-phenoxethanol</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>220 - 460 mg/l</td>
<td>Leuciscus idus</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>&gt; 500 mg/l</td>
<td>Scenedesmus sp.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>&gt; 500 mg/l</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>112-34-5</td>
<td>2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether</td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>&gt; 100 mg/l</td>
<td>Scenedesmus sp.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>&gt; 100 mg/l</td>
<td>Daphnia magna</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability
12.3. Bioaccumulative potential

Can be concentrated in organisms.

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>122-99-6</td>
<td>2-phenoxyethanol</td>
<td>1.16</td>
</tr>
<tr>
<td>112-34-5</td>
<td>2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether</td>
<td>0.56 (25°C)</td>
</tr>
</tbody>
</table>

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.

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

Classified as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)

- 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

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

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

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

SECTION 16: Other information
Relevant R-phrases (Number and full text)
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
22 Harmful if swallowed.
34 Causes burns.
36 Irritating to eyes.
36/38 Irritating to eyes and skin.
38 Irritating to skin.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.
50 Very toxic to aquatic organisms.

Relevant H- and EUH-phrases (Number and full text)
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
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.
H400 Very toxic to aquatic life.
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.)