



**Material Safety Data Sheet**

according to ANSI Z400.1-2004

**Jokisch Special Cutting Oil S91**

Print date: 20.04.2012

Product code: 31

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**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.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

Water fog. Extinguishing powder. Carbon dioxide. Foam.

**Unsuitable extinguishing media**

High power water jet.

**Special hazards arising from the substance or mixture**

Can be released in case of fire:

Carbon dioxide (CO<sub>2</sub>).

Carbon monoxide.

Nitrogen oxides (NO<sub>x</sub>).

**Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

**Environmental precautions**

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

**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****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.

**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

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#### 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

### SECTION 8: Exposure controls/personal protection

#### Control parameters

##### Exposure limits

CAS No	Components	ppm	mg/m <sup>3</sup>	fib/cc	Category	Origin
	Fettsäureester		23,5		TWA (8 h)	
			23,5		TWA (8 h)	
			23,5		TWA (8 h)	

#### Exposure controls

##### Protective and hygiene measures

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

##### Respiratory protection

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

##### 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)

##### Eye protection

Use glasses or face shield if there is a risk of splashing.

##### Skin protection

Chemical resistant safety shoes. Take off immediately all contaminated clothing.  
Thorough skin-cleansing after handling the product. Set out skin protection guidelines.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state: liquid  
Color: amber coloured  
Odor: characteristic

#### Test method

pH-Value: not applicable

#### Changes in the physical state

Boiling point: not determined

Flash point: 180 °C DIN EN 57

Lower explosion limits: not determined

Upper explosion limits: not determined

Vapour pressure: not determined

Density (at 20 °C): 0,90 g/cm<sup>3</sup> EN ISO 12185

Viscosity / kinematic:  
(at 40 °C) 21 mm<sup>2</sup>/s ASTM D 7042

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**SECTION 10: Stability and reactivity**

Stability:

Possibility of Hazardous Reactions:

**Conditions to avoid**

Protect against: heat.

**Incompatible materials**

The following must be prevented: Oxidizing agents, strong. acid.

**Hazardous decomposition products**

Hazardous decomposition products: none/none

**SECTION 11: Toxicological information****Information on toxicological effects****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****Mobility in soil**

in delivery condition: liquid

**SECTION 13: Disposal considerations****Waste treatment methods****SECTION 14: Transport information****Marine transport****Other applicable information**

Not restricted

**Air transport****Other applicable information**

Not restricted

**SECTION 15: Regulatory information****U.S. Regulations****SECTION 16: Other information**

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*