

according to Regulation (EC) No 1907/2006

**Cutting Fluid Silberschnitt V52**

Revision date: 21.10.2019

Product code: BO5002904

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Cutting Fluid Silberschnitt V52

**Further trade names**

BO5002954, 5 l  
BO5002904, 30 l  
BO5002934, 200 l

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

cutting fluid

**1.3. Details of the supplier of the safety data sheet**

Company name:	BOHLE AG	
Street:	Dieselstr. 10	
Place:	D-42781 Haan	
Telephone:	+49 2129 5568-0	Telefax: +49 2129 5568-282
e-mail:	info@bohle.de	
Contact person:	Klaus Nehren	Telephone: +49 2129 5568-276
e-mail:	MSDS@bohle.de	
Internet:	www.bohle.com	
Responsible Department:	Chemie	

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Aspiration hazard: Asp. Tox. 1

Skin corrosion/irritation: Skin Irrit. 2

Hazardous to the aquatic environment: Aquatic Chronic 4

Hazard Statements:

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause long lasting harmful effects to aquatic life.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, &lt;2% aromatics

**Signal word:** Danger**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H304 May be fatal if swallowed and enters airways.  
H413 May cause long lasting harmful effects to aquatic life.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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P260	smoking.
P262	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Do not get in eyes, on skin, or on clothing.
P301+P330+P331	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

**Special labelling of certain mixtures**

EUH066 Repeated exposure may cause skin dryness or cracking.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Chemical characterization**

Hydrocarbons

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
68551-17-7	Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics	<50 %
	918-317-6	
	01-2119474196-32	
	Flam. Liq. 3, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 4; H226 H315 H304 H413	
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	<50 %
	918-481-9	
	01-2119457273-39	
	Asp. Tox. 1; H304	
	Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, <2% aromatics	<25 %
	926-141-6	
	01-2119456620-43	
	Asp. Tox. 1; H304	
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether	< 10 %
	225-878-4	
	603-052-00-8	
	01-2119475527-28	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

First aider: Pay attention to self-protection!

Move out of dangerous area.

Take off contaminated clothing and shoes immediately.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.

If symptoms persist, call a physician.

**After contact with skin**

Wash off with soap and plenty of water.

If symptoms persist, call a physician.

**After contact with eyes**

Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing.

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Consult a physician.

**After ingestion**

Rinse mouth thoroughly with water.

Do NOT induce vomiting.

Call a physician immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

May be fatal if swallowed and enters airways.

Repeated exposure may cause skin dryness or cracking.

**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**

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

Extinguishing powder

alcohol resistant foam

Water spray jet

**Unsuitable extinguishing media**

high volume water jet

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

Heating or fire can release toxic gas.

Carbon dioxide, Carbon monoxide

**5.3. Advice for firefighters**

Standard procedure for chemical fires.

Self-contained respirator (breathing apparatus) (DIN EN 133)

**Additional information**

Use water spray to cool unopened containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

**6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

Do not allow to enter into soil/subsoil.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up**

Provide adequate ventilation.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Dispose of waste according to applicable legislation.

**6.4. Reference to other sections**

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations.

To avoid risks to man and the environment, comply with the instructions for use.

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**Advice on protection against fire and explosion**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Usual measures for fire prevention.  
 Take precautionary measures against static discharges.  
 Vapours can form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.  
 Store in a place accessible by authorized persons only.  
 Protect against direct sunlight.

**Hints on joint storage**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Recommended storage temperature: 5 - 40°C

**7.3. Specific end use(s)**

cutting fluid

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether			
Worker DNEL, long-term		dermal	systemic	44 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	270,5 mg/m <sup>3</sup>

**PNEC values**

CAS No	Substance	Value
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether	
Freshwater		0,525 mg/l
Marine water		0,0525 mg/l
Freshwater sediment		2,36 mg/kg
Marine sediment		0,236 mg/kg
Soil		0,16 mg/kg

**8.2. Exposure controls**

**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

**Protective and hygiene measures**

Do not breathe vapours or spray mist.  
 Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately.  
 Wash hands before breaks and immediately after handling the product.  
 When using do not eat or drink. Do not smoke.  
 Keep away from food, drink and animal feedingstuffs.

**Eye/face protection**

safety glasses with side-shields conforming to EN166

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**Hand protection**

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Glove material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber)

Take note of the information given by the producer concerning permeability and break through times , and of special workplace conditions (mechanical strain, duration of contact).

**Skin protection**

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

DIN EN 13034 (Type 6 limited splash-tight)

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Combination filtering device (EN 14387)

Respirator with filter for organic vapour, Recommended Filter type: A-P2

**Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

Do not allow to enter into soil/subsoil.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless
Odour:	like: Hydrocarbons

pH-Value:	not applicable	<b>Test method</b>
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**Changes in the physical state**

Initial boiling point and boiling range:	> 165 °C
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Flash point:	59 °C	ISO 2719
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Lower explosion limits:	not determined
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Upper explosion limits:	not determined
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Ignition temperature:	not determined
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<b>Auto-ignition temperature</b>	not auto-flammable
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Vapour pressure: (at 20 °C)	1 hPa
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Density (at 20 °C):	0,78 g/cm³
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Water solubility:	insoluble
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Viscosity / dynamic: (at 20 °C)	< 2 mPa·s
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Viscosity / kinematic: (at 40 °C)	< 2 mm²/s
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Solvent content:	100%
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**9.2. Other information**

Vapours can form explosive mixtures with air.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

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**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

Vapours can form explosive mixtures with air.

**10.4. Conditions to avoid**

 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Protect against direct sunlight.

**10.5. Incompatible materials**

oxidizing agents

**10.6. Hazardous decomposition products**

No decomposition if used as directed.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68551-17-7	Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 >1500 mg/kg	Rat		
	dermal	LD50 >3160 mg/kg	Rabbit		
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 >4,951 mg/l	Rat		
	Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 >5000 mg/kg	Rat	OECD 401	
	dermal	LD50 >5000 mg/kg	Rabbit	OECD 402	
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether				
	oral	LD50 >2000 mg/kg	Rat	OECD 423	
	dermal	LD50 >2000 mg/kg	Rat	OECD 402	

**Irritation and corrosivity**

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

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**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Repeated exposure may cause skin dryness or cracking.

**Aspiration hazard**

May be fatal if swallowed and enters airways. (Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics; Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics; Hydrocarbons, C 11-C14, n-alkane, isoalkanes, cyclics, <2% aromatics)

**SECTION 12: Ecological information**

**12.1. Toxicity**

This product has no known eco-toxicological effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna (Big water flea)		

**12.3. Bioaccumulative potential**

Bioaccumulation is unlikely.

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

slightly water endangering  
Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Can be incinerated, when in compliance with local regulations.

**Contaminated packaging**

Dispose of completely emptied containers as combustible waste or metal waste depending on the material.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

- 14.1. UN number:** UN 3295
- 14.2. UN proper shipping name:** HYDROCARBONS, LIQUID, N.O.S.
- 14.3. Transport hazard class(es):** 3
- 14.4. Packing group:** III
- Hazard label: 3



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Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	UN 3295
<b>14.2. UN proper shipping name:</b>	HYDROCARBONS, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3



Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1

### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 3295
<b>14.2. UN proper shipping name:</b>	HYDROCARBONS, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3



Special Provisions:	223
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-D

### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number:</b>	UN 3295
<b>14.2. UN proper shipping name:</b>	HYDROCARBONS, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3



Special Provisions:	A3 A324
Limited quantity Passenger:	10 L
Passenger LQ:	Y344
Excepted quantity:	E1
IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L



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**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): 100 % (780 g/l)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

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

Classification	Classification procedure
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Calculation method
Aquatic Chronic 4; H413	Calculation method

**Relevant H and EUH statements (number and full text)**

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H413 May cause long lasting harmful effects to aquatic life.  
EUH066 Repeated exposure may cause skin dryness or cracking.

**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 receiver of our product is singularly responsible for adhering to existing laws and regulations.

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