

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Schneidflüssigkeit ACECUT 5503

Print date: 24.01.2017

Product code: BO5002825

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

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Further trade names

BO 50028051, 1 l
BO 5002805, 5 l
BO 5002825, 30 l
BO 5002835, 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-group.com	
Responsible Department:	Chemie	

1.4. Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

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

Hazard categories:

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May be fatal if swallowed and enters airways.

Harmful to aquatic life with long lasting effects.

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

Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, <2% aromatics

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

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

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.

Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains (R)-p-mentha-1,8-diene, d-limonene. May produce an allergic reaction.

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	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
	Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, <2% aromatics	< 50 %
926-141-6		01-2119456620-43
	Asp. Tox. 1; H304	
	Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	< 25 %
927-285-2		01-2119480162-45
	Asp. Tox. 1; H304 EUH066	
	Hydrocarbons, C11-C14, isoalkanes, <2% aromatics	< 25 %
920-901-0		01-2119456810-40
	Asp. Tox. 1; H304 EUH066	
124-18-5	Decan	< 25 %
204-686-4		01-2119474199-26
	Flam. Liq. 3, Asp. Tox. 1; H226 H304 EUH066	
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	
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	< 1 %
227-813-5	601-029-00-7	01-2119529223-47
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H226 H315 H317 H400 H410	

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.

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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.

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 (CO₂)

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

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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 exhaustion at critical locations.
To avoid risks to man and the environment, comply with the instructions for use.

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.

Advice on storage compatibility

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 ³
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene			
Worker DNEL, long-term		inhalation	systemic	33,3 mg/m ³
Worker DNEL, long-term		dermal	local	0,222 mg/cm ²

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

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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

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

Changes in the physical state

Melting point: < -20 °C

Initial boiling point and boiling range: > 180 °C

Flash point: 62 °C ISO 2719

Lower explosion limits: 0,4 vol. %

Upper explosion limits: 7 vol. %

Ignition temperature: > 270 °C DIN 51794

Auto-ignition temperature not auto-flammable

Vapour pressure: <2 hPa
(at 20 °C)

Density (at 20 °C): 0,77 g/cm³ DIN 51757

Water solubility: insoluble

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 Viscosity / dynamic: 2 mPa·s DIN 54453
 (at 20 °C)

 Viscosity / kinematic: < 2 mm²/s
 (at 40 °C)

9.2. Other information

Vapours may form explosive mixtures with air.

SECTION 10: Stability and reactivity
10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
	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
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene			
	oral	LD50 > 2000 mg/kg	Rat	
	dermal	LD50 > 2000 mg/kg	Rabbit	IUCLID

Irritation and corrosivity

May cause eye irritation with susceptible persons.

Sensitising effects

Contains: (R)-p-Mentha-1,8-dien. This substance is classified as sensitising

Practical experience
Other observations

Repeated exposure may cause skin dryness or cracking.

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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
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)	
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene				
	Acute fish toxicity	LC50 0,7 mg/l	96 h	Pimephales promelas	
	Acute crustacea toxicity	EC50 0,42 mg/l	48 h	Daphnia magna	

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	4,23

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
Marine transport (IMDG)
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

Air transport (ICAO)
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

Other applicable information

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****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**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.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains (R)-p-mentha-1,8-diene, d-limonene. 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 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.)