

**Safety Data Sheet**

according to UK REACH Regulation

**ACECUT 5503 cutting fluid**

Revision date: 18.03.2022

Product code: BO5002825

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

ACECUT 5503 cutting fluid

**Further trade names**

BO 50028051, 1 l  
 BO 5002805, 5 l  
 BO 5002825, 30 l  
 BO 5002835, 200 l

UFI: D4SG-M0YP-A00J-AP5H

**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:	42781 Haan	
Telephone:	+49 2129 5568-0	Telefax: +49 2129 5568-282
e-mail:	info@bohle.de	
Contact person:	Dr. Martin Schade	Telephone: +49 2129 5568-300
e-mail:	MSDS@bohle.de	
Internet:	www.bohle.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**
**GB CLP Regulation**

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**
**GB CLP Regulation**
**Hazard components for labelling**

Decane, Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, &lt;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.

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**Precautionary statements**

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P331	Do NOT induce vomiting.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

**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 (GB CLP Regulation)			
64742-47-8	Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, <2% aromatics			< 50 %
	926-141-6		01-2119456620-43	
	Asp. Tox. 1; H304			
1174522-15-6	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	Decane			< 15 %
	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, Aquatic Chronic 1; H226 H315 H317 H400 H410			

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

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64742-47-8	926-141-6	Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, <2% aromatics	< 50 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
1174522-15-6	927-285-2	Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	< 25 %
		inhalation: LC50 = >5000 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene, d-limonene	< 1 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	

**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.  
 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.  
 @1501.B015620

**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**

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Standard procedure for chemical fires.  
Self-contained respirator (breathing apparatus)

**Additional information**

Use water spray to cool unopened containers.

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

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****Other information**

Provide adequate ventilation.  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
Absorb with liquid-binding material (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.

**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.

**Advice on general occupational hygiene**

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.

**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 from 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)**

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

**Individual protection measures, such as personal protective equipment**
**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.

EN 13034 (type 6 limited splash-tight)

**Respiratory protection**

 In case of insufficient ventilation, wear suitable respiratory equipment. Combination filtering device  
 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.

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**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

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

**Test method**
**Changes in the physical state**

Melting point/freezing point:	< -20 °C
Boiling point or initial boiling point and boiling range:	> 180 °C
Flash point:	63 °C ISO 2719
Lower explosion limits:	0,4 vol. %
Upper explosion limits:	7 vol. %
Auto-ignition temperature:	> 270 °C DIN 51794
<b>Self-ignition temperature</b>	not auto-flammable
pH-Value (at 5-7 °C):	
Viscosity / dynamic: (at 20 °C)	2 mPa·s DIN 54453
Viscosity / kinematic: (at 40 °C)	< 2 mm <sup>2</sup> /s
Water solubility:	insoluble
Vapour pressure: (at 20 °C)	<2 hPa
Density (at 20 °C):	0,77 g/cm <sup>3</sup> DIN 51757

**9.2. Other information**
**Other safety characteristics**

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 from direct sunlight.

**10.5. Incompatible materials**

oxidizing agents

**10.6. Hazardous decomposition products**

No decomposition if used as directed.

**SECTION 11: Toxicological information**

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**11.1. Information on hazard classes as defined in GB CLP Regulation**
**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-47-8	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	
1174522-15-6	Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 >5000 mg/l	Rat		
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene				
	oral	LD50 > 5000 mg/kg	Rat	GESTIS	
	dermal	LD50 > 5000 mg/kg	Rabbit	GESTIS	

**Irritation and corrosivity**

May cause eye irritation with susceptible persons.

**Sensitising effects**

Contains: (R)-p-Mentha-1,8-dien. This substance is classified as hazardous according to Regulation (EC) No 1272 (2008). sensitising

**11.2. Information on other hazards**
**Other information**

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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	Method
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

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

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

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

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-TI/IATA-DGR)****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

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2004/42/EC (VOC): 100%

**National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

**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): 1,2,9,12,15.

**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.



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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 the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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