

ACECUT 5503 cutting fluid

Revision date: 09/14/2022

Product code: BO5002825

Page 1 of 9

1. Identification**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

Recommended use of the chemical and restrictions on use**Use of the substance/mixture**

cutting fluid

Details of the supplier of the safety data sheet**Manufacturer**

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	

Trader of the product

Company name:	Bohle America, Inc.
Street:	10924 Granite Street, Suite 200
Place:	USA-NC 28273 Charlotte
e-mail (Contact person):	sales@bohle.com

Emergency phone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463**2. Hazard(s) identification****Classification of the chemical****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

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

Decane

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

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

Hydrocarbons, C11-C14, isoalkanes, <2% aromatics

Signal word: Danger

ACECUT 5503 cutting fluid

Revision date: 09/14/2022

Product code: BO5002825

Page 2 of 9

Pictograms:



Hazard statements

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

Precautionary statements

- P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face 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.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Hydrocarbons

Hazardous components

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64742-47-8	Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, <2% aromatics			30 - < 35 %
	926-141-6		01-2119456620-43	
	Asp. Tox. 1; H304			
1174522-15-6	Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics			25 - < 30 %
	927-285-2		01-2119480162-45	
	Asp. Tox. 1; H304 EUH066			
	Hydrocarbons, C11-C14, isoalkanes, <2% aromatics			25 - < 30 %
	920-901-0		01-2119456810-40	
	Asp. Tox. 1; H304 EUH066			
124-18-5	Decane			10 - < 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			5 - < 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.

ACECUT 5503 cutting fluid

Revision date: 09/14/2022

Product code: BO5002825

Page 3 of 9

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
64742-47-8	926-141-6	Hydrocarbons, C11-C14, n-alkane, isoalkanes, cyclics, <2% aromatics	30 %
		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	0.6 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	

4. First-aid measures
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.

Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.
 @1501.B015620

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures
Extinguishing media
Suitable extinguishing media

Carbon dioxide (CO₂)
 Extinguishing powder
 alcohol resistant foam
 Water spray jet

Unsuitable extinguishing media

high volume water jet

Specific hazards arising from the chemical

Heating or fire can release toxic gas.
 Carbon dioxide, Carbon monoxide

Special protective equipment and precautions for fire-fighters

ACECUT 5503 cutting fluid

Revision date: 09/14/2022

Product code: BO5002825

Page 4 of 9

Standard procedure for chemical fires.

Self-contained respirator (breathing apparatus) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

Additional information

Use water spray to cool unopened containers.

6. Accidental release measures
Personal precautions, protective equipment and emergency procedures
General advice

Use personal protective equipment.

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.

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.

Reference to other sections

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage
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.

Vapors may 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.

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

ACECUT 5503 cutting fluid

Revision date: 09/14/2022

Product code: BO5002825

Page 5 of 9

Specific end use(s)

cutting fluid

8. Exposure controls/personal protection
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

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.

ACECUT 5503 cutting fluid

Revision date: 09/14/2022

Product code: BO5002825

Page 6 of 9

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid
 Color: colourless
 Odor: 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
Self-ignition temperature		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 ² /s	
Water solubility:	insoluble	
Vapor pressure: (at 20 °C)	<2 hPa	
Density (at 20 °C):	0,77 g/cm ³	DIN 51757

Other information

Other safety characteristics

Vapours may form explosive mixtures with air.

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

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

Possibility of hazardous reactions

Vapors may form explosive mixtures with air.

Conditions to avoid

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

Incompatible materials

oxidizing agents

Hazardous decomposition products

No decomposition if used as directed.

11. Toxicological information

ACECUT 5503 cutting fluid

Revision date: 09/14/2022

Product code: BO5002825

Page 7 of 9

Information on toxicological effects
Acute toxicity

CAS No	Components				
	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.

Sensitizing effects

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

Information on other hazards
Other information

@1501.B015620

12. Ecological information
Ecotoxicity

This product has no known eco-toxicological effects.

CAS No	Components					
	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		

Bioaccumulative potential

Bioaccumulation is unlikely.

Partition coefficient n-octanol/water

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

Mobility in soil

No data available

ACECUT 5503 cutting fluid

Revision date: 09/14/2022

Product code: BO5002825

Page 8 of 9

Results of PBT and vPvB assessment

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

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

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.

Other adverse effects

Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

13. Disposal considerations

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.

14. Transport information

Marine transport (IMDG)

UN proper shipping name: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN proper shipping name: No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Other applicable information

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

15. Regulatory information

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

Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 2.

Relevant H statements (full text)

- H226 Flammable liquid and vapor
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation

ACECUT 5503 cutting fluid

Revision date: 09/14/2022

Product code: BO5002825

Page 9 of 9

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.

Other data

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.

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