

EC Material Safety Data Sheet

according to 91/155/EWG

1. Identification of substances and the Company

Product details

Trade name: **BECHTOL**
Application: Disinfecting and cleansing bath for rotating instruments, ready-to use solution

Manufacturer / Supplier

Alfred Becht GmbH
P.O.B. 1145, D-77601 Offenburg
Carl-Zeiss-Str. 16, D-77656 Offenburg
*email: klug@becht-online.de
Telephone: + 49-781-60586-0 Fax: + 49-781-60586-40
Information department: + 49-781-60586-0
Emergency phone number: + 49-781-60586-0

2. Hazards identification

*Classification acc. to directive 1272/2008 concerning classification, description and packaging of substances and mixtures:

H314 Causes severe skin burns; category 1B and severe eye damage

Classification acc. to directive 67/548/EU:

C R22 Harmful if swallowed
R34 Causes burns.

3. Composition / Data on components

<u>Designation</u>	<u>CAS-No.</u> <u>EINECS</u>	<u>*R/H-Phrases</u>	<u>Conc.</u>
Potassium Hydroxide Solution	1310-58-3 215-181-3	22/35 H314	<5%
i-Propanol, 2-Propanol, Isopropylalcohol	67-63-0 200-661-7	11,36,67 n.d.a.	<1%

*Classification acc. to directive (EU) no. 1272/2008:
H314: Causes severe skin burns; category 1B and severe eye damage

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Classification acc. to directive 67/548/EU
C, R 22, 34

*In addition:
Risk assessment, please refer to chapter 16

4. First aid measures

- *General recommendation: In case of health problems seek medical advice.
- *After skin contact: Wash immediately with plenty of water and soap. Take off contaminated clothing and wash before reuse.
- *After eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (15 minutes approx. with eyelids open). Seek medical advice immediately and show container or label.
Recommendation: Have an eye-wash bottle readily to hand.
- *After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting. Seek medical advice immediately. Do not undertake neutralisation attempts.
- *After inhaling: Ensure adequate ventilation. In case of health problems seek medical advice. In case of unconsciousness bring patient in stable side position for transport. If breathing is difficult, give oxygen. Keep patient warm.

5. Fire fighting measures

Not applicable. Solution contains organic components in little concentration, only.

Suitable extinguishing agents: CO₂, extinguishing powder or water jet, sand, water or alcohol-resistant foam

Special hazards caused by the material, its products of combustion or resulting gases:
Not flammable. Hydro-gen may form upon contact with light metals.

Special precautions during fire fighting
Protection through wearing of tightly closed chemical protection suit and a self-contained breathing apparatus.

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6. Accidental release measures

Person-related safety precautions: Wear protecting clothing. Keep unprotected persons away. Ensure adequate ventilation.

Measures for environmental protection: Avoid product to reach sewage system or water bodies.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, universal binders, sawdust). Dispose of the material collected according to official regulations. Ensure adequate ventilation.

7. *Handling and storage

Handling

Information for safe handling:

Keep container tightly locked. Ensure adequate ventilation.

Storage

Requirements to be met by storerooms and containers.

Suitable material for containers: plastic. Do not use containers made of aluminium, zinc or tin.

Information about storage in one common storage facility:

Keep away from foodstuff and explosives.

Keep container tightly locked in a well ventilated area.

Store in a cool place.

Further information about storage conditions:

Storage stability:

Storage temperature: 0 - 25 °C

Expiry: 30 months

Do not expose to direct sun light

Storage class: 12 not flammable liquid

Classification according to regulation on inflammable liquids: void

Intended use: ready-to-use cleaning and disinfecting liquid for all contaminated small instruments

Not for use on instruments containing aluminium, zinc or tin.

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8. Exposure controls and personal protection

Personal protection equipment:

Commonly used protective measures:

Commonly accepted rules for the handling of chemicals have to be observed.

Ready-to-use solution to be used only by qualified staff.

Container of the ready-to-use solution to be closed immediately after use.

Container with disinfecting liquid to be covered.

The ready-to-use solution should only be used with

Gloves: chemical resistant protective gloves (EN374)

Eye protection: Safety goggles with peripheral protection and airtight sealed (EN 166)

Protection of the body: safety clothing (long-armed)

Inhalation: only in well-ventilated rooms

Necessary equipment: eye-wash bottle or suitable wash basin

9. Physical and chemical properties

Form:	Fluid
Colour:	clear to yellowish
Odour:	slightly aromatic
ph-value:	13- 14 (at 20 °C)
Change in condition:	
Melting point:	ca. 0 °C
Boiling point:	ca. 100 °C (760 mm Hg)
Flash point:	not determined
Self-inflammability:	not determined
Danger of explosion:	
lower	2 % (i-Propanol)
upper	12 % (i-Propanol)
Steam pressure:	<40 mbar (20 °C)
Density:	1,0-1,1 g/cm ³ (25 °C)
Viscosity:	unlimited in water

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10. Stability and reactivity

Dangerous reactions to be avoided

No dangerous reactions if used according to specifications

Products to be avoided

Reaction with aluminium, tin or zinc and relative alloys (risk of explosion)

Dangerous products of decomposition:

No information available

Additional information

Limited compatibility with certain alloys, resins, animal / vegetable tissue

11. Toxicological information

Acute toxicity:

KOH: LD 50 (oral, rat): 273 mg/kg

Additional toxicological information:

Irritant on skin in presence of Potassium Hydroxide

Sensibility: no information available

12. Ecological information

Toxical in high concentration for water microbes.

Weakly hazardous for water.

Neutralisation in sewage treatment plant possible.

13. Disposal considerations

Product / recommendations:

Disposal must be made according to official regulations.

Uncleaned packaging / recommendations:

Disposal must be made according to official regulations

*Waste code: 07 06 99 wastes not otherwise specified

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14. Transport information

Land transport ADR/RID and GGVS/GGVE

GGVS/GGVE:	Class 8	PG II
ADR/RID Class:	Class 8	PG II
*Classification Code:	C 5 / 22	
*Tunnel category	2(E)	
UN-No.	3266	
*Proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE SOLUTION)	

Shipment by inland waterways ADN / ADR: not classified

Maritime transport IMDG

IMDG	Class: 8
*UN-No.	3266
Packing group:	II
EMS-No:	F-A, S-B
MFAG:	760
*Proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE SOLUTION)

Air transport ICAO-IATA and IATA-DGR

ICAO-IATA	Class: 8
UN-No.	3266
Packing group:	II
*Proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE SOLUTION)

15. Regulatory information

Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives/
Ordinance on Hazardous Materials (GefStoffV/Germany)

Code letter and hazard designation of product:

Description acc. to EU directives:

The product is classified and labelled acc. to regulation 1272/2008/EU:

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Elements of the labelling and preventive declarations:

hazard pictograms:



Warning

Hazard statements

H314 Causes severe skin burns and eye damage

Precautionary statements

P264 Wash hands thoroughly after handling

P102 Keep out of reach of children

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+330+331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P303/P361/P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

16. Other information

n.a. = not applicable

* = modifications to last version

Hazard statements which are referred to in part 2 and 3
according to regulation (EG) Nr. 1272/2008

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Acc. to directive 67/548/EWG

C, R22	Harmful if swallowed
R35	Causes burns
Xi, R 36	Irritating to eyes
F, R 11	Highly flammable
R 67	Vapours may cause drowsiness and dizziness.

Related EC-Directives:

Dangerous Preparation Directive (1999/45/EC), latest amendment by the directive (EC) No. 1907/2006

Dangerous substance directive (67/548/EEC), latest amendment by the directive 2009/2/EC

REACH Directive (EC) No. 1907/2006, latest amendment by the directive (EC) No. 552/2009

Directive (EC) No. 1272/2008 (CLP-(EC-GHS-)Directive)

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.