

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

Trade name: **BECHT-CARBORUNDOL**
Application: Disinfecting and cleansing bath for trimmers, polishing stones and tips

Manufacturer / Supplier

Alfred Becht GmbH
P.O.B. 1145, D-77601 Offenburg
Carl-Zeiss-Str. 16, D-77656 Offenburg
Telephone: + 49-781-60586-0 Fax: + 49-781-60586-40

Information department: + 49-781-60586-0
Emergency phone number: + 49-781-60586-0

2. Composition / Data on components

<u>Designation</u>	<u>MG</u>	<u>CAS-No.</u> <u>*EINECS</u>	<u>Class</u>	<u>Phrases</u>	<u>Conc.</u>
Potassium Hydroxide Solution	57	1310-58-3 215-181-3	C	22-35	<5%
i-Propanol, 2-Propanol, Isopropylalcohol	60	67-63-0 200-661-7	Xi,F	11,36,67	<1%
Glycerin, Propantriol	92	56-81-5 200-289-5			<1%

3. Hazards identification

C corrosive

Weakly hazardous for water

R 22 Harmful if swallowed
R 34 Causes burns

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4. First aid measures

General recommendation: Seek medical advice

After skin contact: Wash immediately with plenty of water and soap. Remove clothing soiled by the product

After eye contact: Rinse immediately with plenty of water (15 minutes approx. with eyelids open) and seek medical advice

After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting. Seek medical advice immediately and show this container or label

After inhaling: Ensure adequate ventilation. Seek medical advice.

5. 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 regulations. Ensure adequate ventilation.

6. Fire fighting measures

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

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

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

7. Handling and storage

Handling: no special precautions necessary
Storage: Keep container firmly sealed. Do not use containers made of aluminium, zinc or tin

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8. Exposure controls and personal protection

Limit concentration

MAK (i-Propanol): 980 mg/m³

Personal protective equipment

Inhalation: not required

Protection of hands: Wear protective gloves

Eye protection: Wear safety glasses

Hygiene measures

Avoid contact with skin, eyes and clothing. Wear protective clothing. Wash hands during breaks and at the end of the work

General protective and hygienic measures should be observed when using chemicals.

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

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:

Acroleine

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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.

Bechtol: UBA 2169-0001 (Germany)

Becht-Carborundol: UBA 2169-0002 (Germany)

13. Disposal considerations

Product / recommendations:

Disposal must be made according to official regulations.

Uncleaned packaging / recommendations:

Disposal must be made according to official regulations

14. Transport information

The product has been classified and labelled in accordance with EC directives / ordinance on hazardous materials (GefStoffV)

Land transport ADR/RID and GGVS/GGVE (2001)

GGVS/GGVE ADR/RID Class: 8

Packing Group II

UN No. 1814

Classification Code: C 5

Proper shipping name: POTASSIUM HYDROXIDE
SOLUTION

Shipment by inland waterways ADN / ADR: not classified

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Maritime transport IMDG

IMDG Class: 8
UN-No. 1814
Packing group: II
EMS-No: 8-06
MFAG: 705
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION

Air transport ICAO-IATA and IATA-DGR

ICAO-IATA Class: 8
UN-No. 1814
Packing group: II
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION

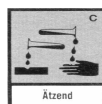
15. Regulatory information

- 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 hazardous designation of product:

C corrosive



*Hazard-determining components of labelling:
Potassium Hydroxide solution

Risk phrases: 22 Harmful if swallowed
34 Causes burns

*Safety phrases: 1/2 Keep locked up and out of reach of children
26-27-28 After contact with skin, take off immediately all
contaminated clothing. After contact with skin and eyes,
wash immediately with plenty of water and seek medical
advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face
protection
45 In case of accident or if you feel unwell, seek medical
advice immediately (show the label where possible)

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46 If swallowed, seek medical advice immediately and show this container or label

German regulations:

Water hazard class:	1 (weak hazardous for water)
Storage class VCI	8 B

16. Other information

n.a. = non applicable

* = modifications to last version

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.

*Risk phrases:

11	Highly flammable
22	Harmful if swallowed
35	Causes severe burns
36	Irritating to eyes
67	Vapours may cause drowsiness and dizziness