

# SAFETY DATA SHEET

FILE NO.: 1

1

EFESOL DRILL BATH

SDS-Date: 11.12.2017

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## SECTION 1: Identification

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PRODUCT NAME: EFESOL DRILL BATH  
SYNONYMS:  
PRODUCT CODES:

MANUFACTURER: Eduard Gerlach GmbH  
DIVISION: Cosmetic-Production  
ADDRESS: Bäckerstr. 4 – 8  
D – 32312 Lübbecke

EMERGENCY PHONE: 05741 / 330 - 0  
CHEMTREC PHONE:  
OTHER CALLS: 05741 /330144/330168 ( Laboratory, E.Gerlach Company )  
FAX : 05741 / 330930

CHEMICAL NAME: EFESOL DRILL BATH  
CHEMICAL FAMILY: Liquid, technical product

CHEMICAL FORMULA : Aqua (Water ), Potassium Hydroxide

PRODUCT USE: Technical product for cleaning drills  
PREPARED BY: Eduard Gerlach GmbH

SECTION 1 NOTES: This product is classified by the GHS-System (EG Nr. 1272/2008)

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## SECTION 2: Hazard(s) Identification

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### EMERGENCY OVERVIEW:

ROUTES OF ENTRY: Most important hazards: H314: Causes severe skin burns and eye damage (category: 1B )

Precautionary statements: P 305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.

P313: Get medical advice/attention

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

P405/P102:Store locked up/ Keep out of reach of children



GHS 05

Signal word: Danger

### POTENTIAL HEALTH EFFECTS:

EYES: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (pH 12.6 ! )

SKIN: After work and in case of contamination, wash hands with soap and water.

INGESTION: If swallowed, seek medical advice and show this container or label. Do not induce vomiting without medical advice.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

ACUTE HEALTH HAZARDS: H 314: Causes severe skin burns and eye damage

CHRONIC HEALTH HAZARDS: none

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

# SAFETY DATA SHEET

FILE NO.: 1

2

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## CARCINOGENICITY

OSHA:                      ACGIH:                      NTP:                      IARC:  
OTHER:

SECTION 2 NOTES: This Product is classified by the GHS-System (EG Nr.1272/2008).  
This Product is not carcinogen

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## SECTION 3: Composition/Information on Ingredients

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INGREDIENT : Potassium hydroxide

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>
1310-58-3	4.5	-----
OSHA PEL-TWA: OSHA PEL STEL : OSHA PEL CEILING	<u>ppm</u>	<u>mg/m3</u>
ACGIH TLV-TWA: ACGIH TLV STEL: ACGIH TLV CEILING:		

SECTION 3 NOTES:                      No German- MAK-data existing

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## SECTION 4: First-Aid Measures

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**EYES:**    In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (pH 12,6!)

**SKIN:**    After work, and in case of contamination, wash hands with soap and water

**INGESTION:** : If swallowed, seek medical advice and show this container or label. Do not induce vomiting without medical advice.

**INHALATION:**    If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Liquid, pH 12.6, prepared with water

SECTION 4 NOTES:    eye-irritation or damage may be possible.

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## SECTION 5: Fire-Fighting Measures

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**FLAMMABLE LIMITS IN AIR, UPPER:**    no limits existing  
(% BY VOLUME)                      **LOWER:**

**FLASH POINT:**    no Flash Point existing

**F:**

**C:**

**METHOD USED:**

**AUTOIGNITION TEMPERATURE:** no autoignition temperature existing

# SAFETY DATA SHEET

FILE NO.: 1

3

EFESOL DRILL BATH

SDS-Date: 11.12.2017

F:  
C:

## NFPA HAZARD CLASSIFICATION

HEALTH: FLAMMABILITY: EFESOL DRILL BATH is non flammable, because water is the main compound of the solution.  
REACTIVITY: Stable under recommended storage conditions lower than 30°C (86°F)  
OTHER:

## HMIS HAZARD CLASSIFICATION

HEALTH: FLAMMABILITY: non flammable REACTIVITY: non reactive  
PROTECTION:

EXTINGUISHING MEDIA: foam, dry powder, carbon dioxide, water or water- stream

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS

HAZARDOUS DECOMPOSITION PRODUCTS: no hazardous decomposition products existing

SECTION 5 NOTES: The product is non flammable

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## SECTION 6: Accidental Release Measures

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ACCIDENTAL RELEASE MEASURES:

SECTION 6 NOTES: Procedure for cleaning/ absorbing: mechanical absorbing or removal with plenty of warm water  
Use wetting agent. Wear protective gloves and eye protection.

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## SECTION 7: Handling and Storage

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HANDLING AND STORAGE: Protect from frost, keep tightly closed in a dry and cool place.  
Do not use container, made of metal. (For example: Iron, Aluminium)  
OTHER PRECAUTIONS: Do not ingest. If ingested, do not induce vomiting.

SECTION 7 NOTES: Avoid temperatures above 30°C (86°F)

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## SECTION 8: Exposure Controls/Personal Protection

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ENGINEERING CONTROLS: none

VENTILATION : no ventilation necessary, in case of normal use. Avoid generation of aerosols.

RESPIRATORY PROTECTION: in case of aerosols: do not breath in.

EYE PROTECTION: need safety glasses in case of handling the product

SKIN PROTECTION: avoid contact with hands and skin, wear rubber gloves or gloves made of polynitril

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

WORK HYGIENIC PRACTICES: Wash hands before eating or drinking and the end of workday.

EXPOSURE GUIDELINES:

# SAFETY DATA SHEET

FILE NO.: 1

4

EFESOL DRILL BATH  
SECTION 8 NOTES:

SDS-Date: 11.12.2017

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## SECTION 9: Physical and Chemical Properties

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APPEARANCE: Form: clear liquid

ODOR: odourless

PHYSICAL STATE:

pH AS SUPPLIED: 12.6 ( conc. product)

pH (Other):

BOILING POINT:

F: beginning at 212°F

C: beginning at 100°C

MELTING POINT:

F:

C:

FREEZING POINT: not measured

F:

C:

VAPOR PRESSURE (mmHg): < 0.1 hPa

@

F:

C:

VAPOR DENSITY (AIR = 1): not applicable

@

F:

C:

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.03 g/ cm<sup>3</sup>

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F: 68°F

C: 20°C

EVAPORATION RATE:

BASIS (=1):

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

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SOLUBILITY IN WATER: complete miscible with water

PERCENT SOLIDS BY WEIGHT: < 5 %WT

PERCENT VOLATILE: water only, > 90 %WT

BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC): no volatile organic compounds existing

WITH WATER: LBS/GAL

WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT:

VISCOSITY:

@

F:

C:

SECTION 9 NOTES:

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## SECTION 10: Stability and Reactivity

STABLE

UNSTABLE

STABILITY: The product is stable under normal conditions -----

CONDITIONS TO AVOID (STABILITY): Keep closed and cool in a dry place, protecting from frost

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid container made of metal

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: none

HAZARDOUS POLYMERIZATION: none

CONDITIONS TO AVOID (POLYMERIZATION): none

SECTION 10 NOTES:

SECTION 11: Toxicological Information

TOXICOLOGICAL INFORMATION: This formulation may be not toxic.

SECTION 11 NOTES: no data of the product

SECTION 12: Ecological Information (non-mandatory)

ECOLOGICAL INFORMATION: no data of the product. Ecological problems are not expected by normal use.  
German-WGK-Class: 1 (Potassium hydroxide)

SECTION 12 NOTES:

SECTION 13: Disposal Considerations (non-mandatory)

WASTE DISPOSAL METHOD: Disposal required in compliance with all waste management related local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal. Diluted solution may be introduced into a biological purification plant, with permission of the responsible authorities.

RCRA HAZARD CLASS:

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES:

SECTION 14: Transport Information (non-mandatory)

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Potassium Hydroxide  
HAZARD CLASS: 8  
ID NUMBER: UN 1814  
PACKING GROUP: III  
LABEL STATEMENT: 8

WATER TRANSPORTATION

PROPER SHIPPING NAME : Potassium Hydroxide  
HAZARD CLASS: 8

# SAFETY DATA SHEET

FILE NO.: 1

6

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ID NUMBER: UN 1814  
PACKING GROUP: III  
LABEL STATEMENTS: 8

## AIR TRANSPORTATION

PROPER SHIPPING NAME: Potassium Hydroxide  
HAZARD CLASS: 8  
ID NUMBER: UN 1814  
PACKING GROUP: III  
LABEL STATEMENTS: 8

OTHER AGENCIES:

SECTION 14 NOTES:

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## SECTION 15: Regulatory Information (non-mandatory)

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS: GHS labelling regulations: Hazard symbol: GHS 05 (Corrosive)  
H 314: Causes severe skin burns and eye damage (category: 1B )

SECTION 15 NOTES:

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## SECTION 16: Other Information

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### OTHER INFORMATION:

All information given above is based on our present state of knowledge and describes the safety measures to be taken with regard to the product concerned. The information does not represent a guarantee of the properties of the product.

### PREPARATION INFORMATION:

Department: The laboratory of Company: Eduard Gerlach GmbH

Date: 11.12.2017      Company: Eduard Gerlach GmbH  
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