



Kalilauge 20%

Version 1.0 Revision Date 01.06.2010 Print Date 29.11.2013

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name Use Supplier	:	KALILAUGE 20% Chemical intermediate BCD Chemie GmbH Schellerdamm 16
Responsible Department		DE 21079 Hamburg Umwelt / Sicherheit
Telephone	:	+49 (0)69-40101-71
Telefax	:	+49 (0)69-40101-34
Emergency telephone	:	+49 (0)208-7828-0
E-mail address	:	InfoSDB@bcd-chemie.de

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment C R35 Causes severe burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Aqueous solution

Hazardous components

potassium hydroxide CAS-No.: 1310-58-3 Classification: Xn; R22 C; R35

EC-No.: 215-181-3

Concentration: 20,00 % 31-3 Index-No.: 019-002-00-8

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES General advice : Take off all contaminated clothing immediately. Inhalation : In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately. Skin contact : Wash off immediately with plenty of water. Call a physician immediately. Eye contact Rinse immediately with plenty of water, also under the eyelids, : for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible. Clean mouth with water and drink afterwards plenty of water. Ingestion Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately. R2428 1/7ΕN





Kalilauge 20%

Version 1.0 Revision Date 01.06.2010 Print Date 29.11.2013

5. FIRE-FIGHTING MEASURES Suitable extinguishing Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product media itself does not burn. Specific hazards during fire Gives off hydrogen by reaction with base metals (zinc, 2 aluminium). Risk of explosion. fighting In the event of fire, wear self-contained breathing apparatus. Special protective : equipment for fire-fighters Wear appropriate body protection (full protective suit) Additional advice Collect contaminated fire extinguishing water separately. This 2 must not be discharged into drains. 6. ACCIDENTAL RELEASE MEASURES Personal precautions Use personal protective equipment. Keep away unprotected persons. Danger of slipping if spilled Avoid contact with skin and eyes. Do not breathe vapours or spray mist. For personal protection see section 8. Environmental precautions Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases. Absorb with liquid-binding material (sand, diatomite, acid Methods for cleaning up binders, universal binders). Keep in suitable, closed containers for disposal. Additional advice Treat recovered material as described in the section "Disposal considerations". 7. HANDLING AND STORAGE Handling Keep container tightly closed. Use personal protective Advice on safe handling equipment. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours or aerosol are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. The product is not flammable. Normal measures for preventive Advice on protection 2 against fire and explosion fire protection. Gives off hydrogen by reaction with metals. Risk of explosion. Storage Requirements for storage Keep in an area equipped with alkali resistant flooring. Store in areas and containers original container. Advice on common storage Keep away from food, drink and animal feedingstuffs. Do not store together with acids and ammonium salts. R2428 ΕN 2/7





Kalilauge 20%

Version 1.0 Print Date 29.11.2013 Revision Date 01.06.2010 Keep container tightly closed. Keep in a well-ventilated place. Further information on storage conditions 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Components with workplace control parameters potassium hydroxide CAS-No.: 1310-58-3 VLA-EC: 2 mg/m3, VLA (ES) Personal protective equipment Respiratory protection : Required, if exposure limit is exceeded (e.g. OEL). Use respirator with appropriate filter if vapours or aerosol are released. Recommended Filter type: Particle filter:P2, Particle filter:P3 Hand protection : The glove material has to be impermeable and resistant to the product / the substance / the preparation. 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). Protective gloves should be replaced at first signs of wear. Material strength of Break through material time butyl-rubber 0.5 mm >= 8 h Natural Rubber 0,5 mm >= 8 h polychloroprene 0,5 mm >= 8 h Nitrile rubber 0,35 mm >= 8 h Fluorinated rubber 0,4 mm >= 8 h Polyvinylchloride 0,5 mm >= 8 h Eye protection Tightly fitting safety goggles alkali resistant protective clothing Body Protection Hygiene measures Keep away from food, drink and animal feedingstuffs. Smoking, : eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. **Engineering measures** Refer to protective measures listed in sections 7 and 8. 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Form : liquid Colour colourless R2428 3/7EN





Kalilauge 20%

Kalllauge 20%					
Version 1.0 Revision Date 01.06.2010	Print Date 29.11.2013				
Odour	: odourless				
Safety data					
Melting point/range	: 0 °C				
Boiling point/boiling range	: 100 °C				
Explosive properties Density	 Product is not explosive. 1,185 g/cm3; 20 °C 				
рН	: 14; 20 °C				
10. STABILITY AND REACTIVIT	Ύ				
Materials to avoid Hazardous decomposition products	: Acids : None known.				
Hazardous reactions	 Gives off hydrogen by reaction with base metals (zinc, aluminium). Risk of explosion. Reacts exothermic with water Reacts exothermic with acids. 				
General advice	: No decomposition if stored and applied as directed.				
11. TOXICOLOGICAL INFORMA	TION				
Ingestion Skin contact Eye contact	 LD50 rat 273 mg/kg rabbit corrosive effects rabbit corrosive effects, Risk of serious damage to eyes. 				
Sensitisation	: guinea pig: not sensitizing:				
Further information	: All numerical values for acute toxicity are calculated on the pure substances. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.				
12. ECOLOGICAL INFORMATIC)N				
Elimination information (po	Elimination information (persistence and degradability)				
Biodegradability	: The methods for determining biodegradability are not applicable to inorganic substances.				
Ecotoxicity effects					
Toxicity to fish	LC50 Gambusia affinis 80 mg/l 96 h LC50 Poecilia reticulata 165 mg/l 24 h				
Toxicity to bacteria	: EC50 Photobacterium phosphoreum 22 mg/l 15 min				
Further information on eco	ology				
Additional ecological information	 All numerical values for ecotoxicity effects are calculated on the pure substances. Do not flush into surface water or sanitary sewer system. Harmful effects to aquatic organisms due to pH- 				
R2428	4/7 FN				





Kalilauge 20%

Version 1.0 Revision Date 01.06.2010 Print Date 29.11.2013

shift. Neutralization is normally necessary before waste water is discharged into water treatment plants.

13. DISPOSAL CONSIDERATIONS

Product	: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
Packaging	: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
European Waste Catalogue Number	: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. TRANSPORT INFORMATION

ADR	: UN-Number Class Packaging group Classification Code Labels Hazard identification No Labeling according to 5.2.1.8 ADR Description of the goods	1814 8 II C5 8 80 no POTASSIUM HYDROXIDE SOLUTION
RID	: UN-Number Class Packaging group Classification Code Labels Hazard identification No Labeling according to 5.2.1.8 RID Description of the goods	1814 8 II C5 8 80 no POTASSIUM HYDROXIDE SOLUTION





17-11 0.00/

Kalilauge 20	Kalilauge 20%				
Version 1.0 Revision Date 01.0	06.2010		Print Date 29.11.2013		
15. REGULATORY Labelling acc	ording to EC Directi	ding to) IMDG ods ves	1814 8 II 8 F-A, S-B no no POTASSIUM HYDROXIDE SOLUTION rdance with EC directives or respective national laws.		
C Corrosi	ve				
R-phrase(s)	R35	Causes	severe burns.		
S-phrase(s)	S26 S37/39 S45	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).			
Hazardous components which must be listed on the label: potassium hydroxide					
National legislation					
16. OTHER INFORMATION Full text of R-phrases referred to under sections 2 and 3					





Kalilauge 20%

Version 1.0 Revision Date 01.06.2010 Print Date 29.11.2013

R22 R35

Harmful if swallowed. Causes severe burns.

Further information

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

|| Indicates updated section.