

SAFETY DATA SHEET

Afløbsrens, flydende

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 15.12.2015

1.1. Product identifier

Product name Afløbsrens, flydende
 Chemical name Natriumhydroxid og Kaliumhydroxid
 Specification No. Pr nr.: 1688573

1.2. Relevant identified uses of the substance or mixture and uses advised against

Function Purification of effluent.
 Relevant identified uses ES 1
 SU21 Consumer uses: Private households (= general public = consumers)
 PC35 Washing and cleaning products (including solvent based products)

1.3. Details of the supplier of the safety data sheet

Company name Borup Kemi I/S
 Postal address Bækgårdsvej 53
 Postcode DK-4140
 City Borup
 Country Denmark
 Tel 57 56 00 20
 Fax 57 56 00 21
 E-mail kontakt@borup-kemi.dk
 Website http://www.borup-kemi.dk

1.4. Emergency telephone number

Emergency telephone Use your national or local emergency number - See section 4 "First aid measures".:-

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to 67/548/EEC or 1999/45/EC C; R35
 Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] Skin Corr 1A;H314;

2.2. Label elements

Hazard Pictograms (CLP)



Signal word

Danger

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.
 P280 Wear protective gloves / protective clothing / eye protection / face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P310 Immediately call a POISON CENTER or doctor / physician.
 P405 Store locked up.
 P501 Indholdet/holderen bortskaffes i henhold til lokale affaldsregulativer.

Other Label Information (CLP)	Deklaration i henhold til EU Forordning nr. 648/2004: -
CLP - Special rules on packaging	Tactile warning. If this product is sold retail, it must be delivered in a child-proof container.
Child-protection	Yes
Tactile warnings	Yes

2.3. Other hazards

Other hazards	-
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Sodium hydroxide	CAS no.: 1310-73-2 EC no.: 215-185-5 Index no.: 011-002-00-6	Skin Corr 1A; H314;	5 - 10 vægt%
Potassium hydroxide	CAS no.: 1310-58-3 EC no.: 215-181-3 Index no.: 019-002-00-8	Acute tox. 4; H302 Skin Corr. 1A; H314	1 - 5 vægt%
Substance comments	See also section 16.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	If medical advice is needed, have product container or label at hand.
Inhalation	Seek fresh air. Keep victim under observation. Get medical advice/attention if you feel unwell.
Skin contact	Immediately remove contaminated clothing. Wash the skin thoroughly with water and continue washing for a long time. Seek medical advice immediately.
Eye contact	Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.
Ingestion	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do NOT induce vomiting. Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed

Information for health personnel	Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are inhaled, it can result in damage to lungs, irritation and burns in the respiratory organs as well as coughing. Corrosive substances cause irreversible damage to eyes and acid burns to skin.
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4.3. Indication of any immediate medical attention and special treatment needed

Other Information	Bring this safety data sheet.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with powder, foam, carbon dioxide or water mist. Use water or
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Improper extinguishing media	water mist to cool non-ignited stock. Do not use water stream, as it may spread the fire.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is not directly flammable. Avoid inhalation of vapour and fumes – seek fresh air.
Hazardous combustion products	Hazardous fumes are formed in fire conditions.

5.3. Advice for firefighters

Personal protective equipment	Wear respiratory protection.
Other Information	Eliminate all ignition sources if safe to do so. Send contaminated extinguishing water for destruction. Extinguishing water which has been in contact with the product may be corrosive.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Avoid breathing fume / gas / mist / vapours .
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6.1.2. For emergency responders

For emergency responders	Deployment personnel: normal protective clothing equivalent to EN 469 is recommended.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid release to the environment. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Caution! Causes burns.
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6.4. Reference to other sections

Other instructions	See section 8 for type of protective equipment. See section 13 for instructions on disposal.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	See section 8 for information about precautions for use and personal protective equipment. Running water and eye wash equipment should be available.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Store in a dry, cool, well-ventilated area.
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7.3. Specific end use(s)

Specific use(s)	See application section 1.
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Specific end users

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Sodium hydroxide	CAS no.: 1310-73-2	15 min.: 2 mg/m ³	
	EC no.: 215-185-5		
	Index no.: 011-002-00-6		
Potassium hydroxide	CAS no.: 1310-58-3	15 min.: 2 mg/m ³	
	EC no.: 215-181-3		

Index no.: 019-002-00-8

DNEL / PNEC from substances

Substance	Sodium hydroxide
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 1 mg/m ³
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 1 mg/m ³
Substance	Potassium hydroxide
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 1 mg/m ³
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 1 mg/m ³

8.2. Exposure controls

Recommended monitoring procedures	Overholdelse af de angivne grænseværdier bør kontrolleres regelmæssigt. Se evt. At-vejledning D.7.1, Maj 2001
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Safety signs**Precautionary measures to prevent exposure**

Instruction on measures to prevent exposure	Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.
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Respiratory protection

Respiratory protection	In case of insufficient ventilation, wear respiratory protective equipment with filter A2/P2.
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Hand protection

Hand protection	Wear protective gloves made of nitrile rubber, butyl rubber). Change gloves immediately if contaminated, and wash hands with soap and water.
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Eye / face protection

Eye protection	Wear safety goggles/face protection.
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Skin protection

Skin protection (except hands)	Wear suitable protective clothing.
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Appropriate environmental exposure control

Environmental exposure controls	Keep damming materials near the workplace. If possible collect spillage during work.
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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Liquid
Colour	Colourless
Odour	Odourless

9.2. Other information

Other physical and chemical properties

Comments	None.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Non-reactive.
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10.2. Chemical stability

Stability	The product is stable when used in accordance with the supplier's directions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Reacts with metals to produce hydrogen which may produce explosive hydrogen / air mixtures.
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10.4. Conditions to avoid

Conditions to avoid	Dissolves grease cover and attack seals, certain plastics and rubber materials.
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10.5. Incompatible materials

Materials to avoid	Avoid contact with strong acids. Avoid contact with metals. Må ikke blandes med andre kemikalier.
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10.6. Hazardous decomposition products

Hazardous decomposition products	No special precautions regarding contact with other materials at the recommended storage conditions.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance	Sodium hydroxide
LD50 oral	Value: 325 mg/kg bw Animal test species: Rabbit
Substance	Potassium hydroxide
LD50 oral	Value: 333 mg/kg bw Animal test species: Rat

Potential acute effects

Inhalation	Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are inhaled, it can result in damage to lungs, irritation and burns in the respiratory organs as well as coughing.
Skin contact	Has a corrosive effect and causes burning pain, reddening, blisters and burns.
Eye contact	May cause severe burns, pain, tearing and cramp of the eyelids. Risk of serious damage to eyes and loss of vision.
Ingestion	May cause burns to mouth, gullet and stomach. Pains in mouth, throat and stomach. Difficulty in swallowing, indisposition and bloody vomit. Brown spots and burns may appear in and around the mouth.

Delayed effects / repeated exposure

General	No special
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SECTION 12: Ecological information

12.1. Toxicity

Toxicological data for substances

Substance	Sodium hydroxide
Acute aquatic, fish	Value: 189 mg/L Method of testing: LC50 Duration: 48 h
Acute aquatic, Daphnia	Value: 40,4 mg/L Method of testing: EC50 Duration: 48 h
Substance	Potassium hydroxide
Acute aquatic, fish	Value: 80 mg/L Method of testing: LC50 Duration: 96 h

12.2. Persistence and degradability

Persistence and degradability	Test data are not available.
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12.3. Bioaccumulative potential

Bioaccumulative potential	Test data are not available.
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12.4. Mobility in soil

Mobility	Test data are not available.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	The mixture does not meet the criteria for PBT or vPvB.
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12.6. Other adverse effects

Other adverse effects / Remarks	None.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 20 01 15 alkalines

SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN	3266
RID	3266
IMDG	3266
ICAO/IATA	3266
Comments	The product is covered by the rules for transport of dangerous goods.

14.2. UN proper shipping name

ADR	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
RID	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
IMDG	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
ICAO/IATA	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

14.3. Transport hazard class(es)

ADR / RID / ADN	8
RID	8
IMDG	8
ICAO/IATA	8

14.4. Packing group

ADR	II
RID	II
IMDG	II
ICAO/IATA	II

14.5. Environmental hazards

14.6. Special precautions for user

EmS	F-A, S-B
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

ADR / RID - Other information

Hazard no.	80
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other labelling requirements	Deklaration i henhold til EU Forordning nr. 648/2004: -
Detergents	SODIUM HYDROXIDE POTASSIUM HYDROXIDE
National regulations	People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC. For exceptions, see the Danish Working Environment Authority <input type="checkbox"/> <input type="checkbox"/> s Executive Order No. 239 of 6 April 2005.
Declaration no.	1688573
Legislation and regulations	Krav om arbejdspladsbrugsanvisning, da produktet indeholder > 1 % af et stof, som er klassificeret som sundhedsfarligt eller miljøfarligt efter Miljøministeriets regler.

15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Skin Corr 1A; H314;
List of relevant R-phrases (under headings 2 and 3).	R35 Causes severe burns.
List of relevant H-phrases (Section 2 and 3).	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
Additional information	It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification. The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
Important data sources used to construct the safety data sheet	Data sources in Denmark. Arbejdstilsynets bekendtgørelse nr. 301 af 13. maj 1993 om fastsættelse af kodenumre. Arbejdstilsynets bekendtgørelse nr. 292 af 26. april 2001 om arbejde med stoffer og materialer (kemiske agenser). Arbejdstilsynets bekendtgørelse nr. 239 af 6. april 2005 om unges arbejde. Bekendtgørelse nr. 1049 af 27. oktober 2005 om markedsføring og mærkning af flygtige organiske forbindelser i visse maling og lakker samt produkter til autoreparationslakering. Bekendtgørelse nr. 1075 af 24. november 2011 om klassificering, emballering, mærkning, salg og opbevaring af stoffer og blandinger.

	<p>Bekendtgørelse nr. 878 af 26. juni 2010 af lov om kemiske stoffer og produkter.</p> <p>Bekendtgørelse nr. 559 af 04/07/2002 om særlige pligter for fremstillere, leverandører og importører mv. af stoffer og materialer efter lov om arbejdsmiljø.</p> <p>Bekendtgørelse nr. 507 af 17/05/2011 om grænseværdier for stoffer og materialer, med senere ændringer.</p> <p>Bekendtgørelse nr. 1309 af 18/12/2012 om affald.</p> <p>EU forordning nr. 1907/2006 (REACH).</p> <p>EU forordning nr. 1272/2008 (CLP), med senere tilpasninger.</p> <p>ECHA – Det europæiske kemikalieagentur.</p>
Version	1
Responsible for safety data sheet	Borup Kemi I/S
Comments	Valideret af mediator A/S - DH.