

SAFETY DATA SHEET

Afløbsrens Ren

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 15.01.2013

Revision date 27.01.2015

1.1. Product identifier

Product name Afløbsrens Ren

Article no. 100474

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

Product group Drain Cleaner.

Use of the substance/preparation Liquid alkaline draincleaner

Relevant identified uses
SU4 Manufacture of food products
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
PC35 Washing and cleaning products (including solvent based products)
PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
ERC8A Wide dispersive indoor use of processing aids in open systems
ERC8B Wide dispersive indoor use of reactive substances in open systems

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Downstream user

Company name MultiLine A/S
Office address Alsvej 14, 8940 Randers SV
Postal address Kirkebjergvej 17
Postcode DK-4180
City Sorø
Country Danmark
Tel +45 7010 7700
E-mail psa@multiline.dk
Website <http://www.multiline.dk>

1.4. Emergency telephone number

Emergency telephone Link to national poison centers:
http://echa.europa.eu/help/nationalhelp_contact_en.asp

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to C; R35
67/548/EEC or 1999/45/EC

Substance / mixture hazardous properties For further information, please refer to section 11.

2.2. Label elements

Hazard Pictograms (CLP)



Composition on the label	Sodium hydroxide: 15 - 30 %
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
Precautionary statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. 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. P310 Immediately call a POISON CENTER or doctor/physician.

2.3. Other hazards

Health effect	Corrosive to skin and eyes. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY. Spray mists irritate the respiratory system, and cause coughing and difficulties in breathing. See section 11 for additional information on health hazards.
Environmental effects	Substantial amounts of the product may lead to a local change in acidity in small water systems which may have adverse effects on aquatic organisms. This product does not contain any PBT or vPvB substances.
Other hazards	No data recorded.

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 Registration number: 01-2119457892-27-XXXX Synonyms: Sodium hydroxide	C; R35 Skin Corr. 1A; H314	15 - 30 %
Substance comments	The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if any discomfort continues.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Do not give victim anything to drink if he is unconscious.
Recommended personal protective	Wear necessary protective equipment. For personal protection, see section 8.

equipment for first aid responders

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

Acute symptoms and effects

As described in section 2.2 and 2.3.

Delayed symptoms and effects

Ættsningen trænger dybt ind i vævet og bemærkes ofte først efter et stykke tid.

4.3. Indication of any immediate medical attention and special treatment needed

Other Information

In case of unconsciousness, ingestion or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

This product is not flammable. During fire, gases hazardous to health may be formed. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

5.3. Advice for firefighters

Personal protective equipment

Wear necessary protective equipment. For personal protection, see section 8.

Fire fighting procedures

Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities. Avoid breathing fire vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures

Look out! The product is corrosive. Use protective gloves, goggles and suitable protective clothing. In case of inadequate ventilation, use respiratory protection. For personal protection, see section 8.

6.2. Environmental precautions

Environmental precautionary measures

Avoid discharge into water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Cleaning method

Dam and absorb spillage with sand, sawdust or other absorbent. Wash contaminated area with water.

6.4. Reference to other sections

Other instructions

See section 8 and section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Avoid spilling, skin and eye contact. Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Do not mix with acidic products.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in tightly closed original container. Keep away from food, drink and animal feeding stuffs. Store protected from acids.

Conditions for safe storage

Storage Temperature

Value: -10-35 °C

Storage Stabilit

Durability: 36 months.

7.3. Specific end use(s)

Specific use(s)

The identified uses for this product are detailed in Section 1.2.

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 EC no.: 215-185-5 Index no.: 011-002-00-6 Registration number: 01-2119457892-27-XXXX Synonyms: Sodium hydroxide	15 min.: 2 mg/m ³	2011

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 Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 1 mg/m ³ Remarks: ECHA

DNEL / PNEC

Summary of risk management measures, environment Data lacking.

8.2. Exposure controls

Recommended monitoring procedures	Not known.
Limitation of exposure on workplace	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Safety signs



Respiratory protection

Respiratory protection In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).

Hand protection

Hand protection Use protective gloves made of: Butyl rubber. Neoprene. Nitrile.
Breakthrough time Breakthrough time for nitrile rubber, neoprene and butyl rubber is approx. 3 hours.
The recommendation is a qualified estimate based on knowledge of the components. Elastic gloves stretch when used as glove thickness and thus the breakthrough time reduced.
The EN 374-3 standard test is performed at 23°C, but the practical temperature of the glove is approx. 35°C.
The breakthrough time of the different glove guides, is therefor reduced by a factor 3.

Eye / face protection

Eye protection Use eye protection.

Skin protection

Skin protection (except hands) Wear apron or protective clothing in case of contact. Wear rubber footwear.

Thermal hazards

Thermal hazards None specific.

Appropriate environmental exposure control

Environmental exposure controls See section 6.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Fluid.
Colour	Colourless.
Comments, Odour limit	Not relevant.
pH (as supplied)	Value: > 13
Comments, Melting point / melting range	Not relevant.
Comments, Boiling point / boiling range	Not relevant.
Comments, Evaporation rate	Not relevant.
Comments, Explosion limit	Not relevant.
Comments, Vapour pressure	Not relevant.
Bulk density	Value: 1,30 kg/l
Solubility description	Completely soluble in water.
Comments, Partition coefficient: n-octanol / water	Not determined.
Comments, Spontaneous combustability	Not relevant.
Comments, Decomposition temperature	Not relevant.
Comments, Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information**Other physical and chemical properties**

Comments No data recorded.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Reacts violently with strong acids. Risk of bumping (splashes).

10.4. Conditions to avoid

Conditions to avoid Heating. Extremes of temperatures. Avoid contact with acids.

10.5. Incompatible materials

Materials to avoid Strong acids. Acids, oxidising. Alkali-sensitive metals such as aluminium, tin, lead and zinc and alloys with these metals.

10.6. Hazardous decomposition products

Hazardous decomposition products In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Other information

Other Information No data recorded.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data Toxicological tests on the product has not been performed.

Toxicological data for substances

Substance	Sodium hydroxide
LD50 oral	Value: 325 mg/kg bw Animal test species: rabbit Duration: single dose Test reference: - Comments: EU/RAR
LDLo oral	Value: 500 mg/kg bw Animal test species: rat Duration: single dose Test reference: - Comments: EU/RAR
Other toxicological information for the substance	Acute Toxicity (Dermal LD50): Data lacking. OECD/SIDS 2002. Acute Toxicity (Inhalation LC50): Data lacking. OECD/SIDS 2002.
Acute toxicity	Ingestion: Strongly corrosive. Even small amounts may cause very severe internal damage and may be fatal. Human/OECD/SIDS 2002.
Skin corrosion / irritation	Species: Yorkshire weanling pigs. Result: Corrosive to skin. (8% NaOH-solution). Duration: 15 min. Method of testing: No information required. EU/RAR.
Serious eye damage / irritation	Species: Rabbit. Result: Corrosive to eyes. (10% NaOH-solution). Duration: 24h. Method of testing: OECD 405 . ECHA.

Other information regarding health hazards

General Causes severe burns.

Potential acute effects

Inhalation	Aerosols may be corrosive. Inhalation may cause: Serious damage to the lining of nose, throat and lungs.
Skin contact	Strongly corrosive. May cause deep tissue damage.
Eye contact	Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.
Ingestion	Strongly corrosive. Even small amounts may be fatal. Symptoms are severe burning pains in mouth, throat and stomach. May cause burns in mucous membranes, throat, oesophagus and stomach.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.

Aquatic, comments No data recorded.

Toxicological data for substances

Substance No data available for ingredient(s).

Aquatic, comments -

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

PBT assessment results Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Environmental details, summation For this product no classification is required for environmental hazards.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Specify the appropriate methods of disposal Do not dispose of residues and waste down the drains. Dispose of waste and residues in accordance with local authority requirements.

Product classified as hazardous waste Yes

Packaging classified as hazardous waste Yes

EWC waste code EWC: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

Other Information When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste code applies to product remnants in pure form.

SECTION 14: Transport information**14.1. UN number**

ADR 1824
 RID 1824
 IMDG 1824
 ICAO/IATA 1824

14.2. UN proper shipping name

ADR SODIUM HYDROXIDE SOLUTION
 RID SODIUM HYDROXIDE SOLUTION
 IMDG SODIUM HYDROXIDE SOLUTION
 ICAO/IATA SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

ADR 8
 Hazard no. 80
 RID 8
 IMDG 8
 ICAO/IATA 8

14.4. Packing group

ADR II
 RID II
 IMDG II
 ICAO/IATA II

14.5. Environmental hazards

IMDG Marine pollutant No

14.6. Special precautions for user

EmS F-A, S-B
 Special safety precautions for user Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information.

Additional information. Not relevant.

SECTION 15: Regulatory information

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

EEC-directive	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other Label Information	For professional users only. As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). EH40/2005, Workplace exposure limits 2005, with amendments.

15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

Hazard symbol



R-phrases	R35 Causes severe burns.
S-phrases	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
List of relevant R-phrases (under headings 2 and 3).	R35 Causes severe burns.
List of relevant H-phrases (Section 2 and 3).	H314 Causes severe skin burns and eye damage.
Training advice	No particular training or education is required but the user must be familiar with this SDS. Users must be carefully instructed in the proper work

	procedure, the dangerous properties of the product and the necessary safety instructions.
Information which has been added, deleted or revised	Change to Sections: 1, 2, 3, 9, 13, 16
Version	1
Responsible for safety data sheet	MultiLine A/S
Prepared by	MP