

SAFETY DATA SHEET

FLYDENDE pH 14

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

1.1. Product identifier

Trade name

FLYDENDE pH 14

Product no.

1010

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

Relevant identified uses of the substance or mixture

Heavy Duty Cleaner

Use descriptors (REACH)

Sectors of use	Description
LCS "IS"	Industrial uses: Uses of substances as such or in preparations at industrial sites
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	Description
PC35	Washing and Cleaning Products (including solvent based products)

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

Knud E. Dan A/S

Lunikvej 40

2670 Greve

Danmark

+45 43692422

+45 43690578

Contact person

Lars Bøgeholm

E-mail

lbj@knudedan.dk

SDS date

2021-08-12

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Safety statement(s)

General

-

Prevention

Do not breathe vapour / mist. (P260)

Wear eye protection / protective gloves / protective clothing. (P280)

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER / doctor. (P310)

Storage

-

Disposal

-

Hazardous substances

sodium hydroxide caustic soda

2.3. Other hazards

Additional labelling

Not applicable

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
sodium hydroxide caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5 REACH: Index No.: 011-002-00-6	5-10%	Met. Corr. 1, H290 Eye Dam. 1, H318 Skin Corr. 1A, H314	
SODIUM CUMENE SULPHONATE	CAS No.: 15763-76-5 EC No.: 239-854-6 REACH: 01-2119489411-37-	5-10%	Eye Irrit. 2, H319	

	XXXX			
	Index No.:			
2-(2-butoxyethoxy)ethanol	CAS No.: 112-34-5	5-10%	Eye Irrit. 2, H319	[1], [3]
	EC No.: 203-961-6			
	REACH: 01-2119475104-XXXX			
	Index No.: 603-096-00-8			

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit

[3] The chemical substance is subject to REACH restrictions, REACH annex XVII.

Labelling of contents according to Detergents Regulation (EC) No 648/2004

< 5%

- Anionic surfactants
- Non-ionic surfactants

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Not applicable

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Sulphur oxides.

Carbon oxides (CO / CO₂).

Some metal oxides.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

5 - 25 °C

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

— sodium hydroxide caustic soda

Short term exposure limit (15 minutes) (mg/m³): 2

— 2-(2-butoxyethoxy)ethanol

Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m³): 67,5

Short term exposure limit (15 minutes) (ppm): 15

Short term exposure limit (15 minutes) (mg/m³): 101,2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020)

DNEL

Product/substance	sodium hydroxide caustic soda
DNEL	1 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - General population

Product/substance	sodium hydroxide caustic soda
DNEL	1 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	SODIUM CUMENE SULPHONATE
DNEL	7,6 mg/kg kropsvægt/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

Product/substance	SODIUM CUMENE SULPHONATE
DNEL	56,6 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	14 ppm
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers

Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	20 mg/kg/ uge/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	10 ppm
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	2-(2-butoxyethoxy)ethanol
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

DNEL	10 ppm
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	7,5 ppm
Route of exposure	Inhalation
Duration	Short term – Local effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	10 mg/kg uge/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	5 mg/kg uge/dag
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	1,3 mg/kg uge/dag
Route of exposure	Oral
Duration	Short term
Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	5 mg/m3
Route of exposure	Inhalation
Duration	Long term – Local effects

PNEC

Product/substance	SODIUM CUMENE SULPHONATE
PNEC	0,23 mg/l
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	SODIUM CUMENE SULPHONATE
PNEC	2,3 mg/l
Route of exposure	Intermittent release
Duration of Exposure	
Product/substance	SODIUM CUMENE SULPHONATE
PNEC	100 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	1 mg/l
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol

PNEC	0,1 mg/l
Route of exposure	Marine water
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	4 mg/l
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	0,4 mg/l
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	200 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	0,4 mg/l
Route of exposure	Soil
Duration of Exposure	

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment


Generally

Use only CE marked protective equipment.


Respiratory Equipment

No specific requirements


Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0.3	> 480	EN374-2, EN374-3, EN388	

Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Tan

Odour / Odour threshold

Characteristic

pH

13,5

Density (g/cm³)

1.16

Kinematic viscosity

Testing not relevant or not possible due to nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Relative vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Soluble

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	SODIUM CUMENE SULPHONATE
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	> 7000 mg/kg
Other information	

Product/substance	SODIUM CUMENE SULPHONATE
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	> 2000 mg/kg
Other information	

Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	2700 mg/kg ·
Other information	

Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	5660 mg/kg ·
Other information	

Skin corrosion/irritation

Product/substance	SODIUM CUMENE SULPHONATE
Test method	
Species	Rabbit
Duration	No data available.
Result	
Other information	

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	SODIUM CUMENE SULPHONATE
Test method	
Species	Rabbit
Duration	No data available.
Result	
Other information	

Causes severe skin burns and eye damage.

Causes serious eye damage.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

No special

Other information

No special

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	sodium hydroxide caustic soda
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	35-189 mg/l. ·
Other information	

Product/substance	sodium hydroxide caustic soda
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	LD50
Result	40,4 mg/l ·
Other information	

Product/substance	SODIUM CUMENE SULPHONATE
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>1000 mg/L
Other information	

Product/substance	SODIUM CUMENE SULPHONATE
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	>1000 mg/L
Other information	

Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Species	Fish
Compartment	
Duration	96 hours

Test	LC50
Result	1300 mg/l ·
Other information	

Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Species	Daphnia
Compartment	
Duration	24 hours
Test	LD50
Result	3200 mg/l ·
Other information	

Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Species	Algae
Compartment	
Duration	96 hours
Test	LD50
Result	>100 mg/l ·
Other information	

12.2. Persistence and degradability

Product/substance	SODIUM CUMENE SULPHONATE
Biodegradable	Yes
Test method	
Result	

Product/substance	2-(2-butoxyethoxy)ethanol
Biodegradable	Yes
Test method	TG 301 E- Test Modified OECD Screening Test -70%
Result	90-100

12.3. Bioaccumulative potential

Product/substance	SODIUM CUMENE SULPHONATE
Test method	
Potential bioaccumulation	No data available
LogPow	< 1
BCF	No data available
Other information	

Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Potential bioaccumulation	No
LogPow	0,5600
BCF	No data available
Other information	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

No special

12.7. Other adverse effects

No special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive

Avoid discharge to lakes, streams, sewers, etc.

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWG code

07 06 01* Aqueous washing liquids and mother liquors

Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
1760	CORROSIVE LIQUID, N.O.S. (sodium hydroxide caustic soda)	8	III	3 (E)

IMDG

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
1760	CORROSIVE LIQUID, N.O.S. (sodium hydroxide caustic soda)	8	III	F-A, S-B

MARINE POLLUTANT

No

IATA

UN- or ID number	UN proper shipping name	Labels	Packing group
1760	CORROSIVE LIQUID, N.O.S. (sodium hydroxide caustic soda)	8	III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

Not applicable

Additional information

Not applicable

Sources

The Management of Health and Safety at Work Regulations 1999

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

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 (CLP).

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).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H314, Causes severe skin burns and eye damage.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

LCS "IS" = Industrial uses: Uses of substances as such or in preparations at industrial sites

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

PC35 = Washing and Cleaning Products (including solvent based products)

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWG = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit.
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The safety data sheet is validated by

lbj

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

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.

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.

Country-language: GB-en