

## SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

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**SECTION 1: Identification of the substance/preparation and of the company/undertaking**

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**1.1. Product identifier:**

IFOAM

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

Strong alkaline foam cleaner for the food and fish industry. Follow the instruction on the package. Do not let the foam dry. Rinse off with plenty of water. Dilution: 1-3% Ifoam diluted with water.

**1.3. Details of the supplier of the safety data sheet:**

Kemilux

Mykinesgøta 1 - P.O.Box 1231

FO-110 Tórshavn - Faroe Islands

Phone: +298 662000 - Fax +298 350831

Responsible person for the safety data sheet (e-mail): altox@altox.dk

**1.4. Emergency telephone number:**

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

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**SECTION 2: Hazards identification**

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**2.1. Classification of the substance or mixture:**

Corrosive liquid.

CLP (1272/2008): Met. Corr. 1;H290 Skin Corr. 1A;H314 Eye Dam. 1;H318

**2.2. Label elements:**

Contents: Sodium hydroxide, Potassium hydroxide



DANGER

- H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.  
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.  
P303+P361+P353+P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.  
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
P501: Dispose of contents/container in accordance with applicable regulations.

**2.3. Other hazards:** None known.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

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**SECTION 3: Composition/information on ingredients**


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**3.2. Mixtures:**

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.-no.	Classification
2-10	Sodium hydroxide	1310-73-2	215-185-5	011-002-00-6	-	Skin Corr. 1A;H314 Eye Dam. 1;H318
2-10	Potassium hydroxide	1310-58-3	215-181-3	019-002-00-8	-	Acute Tox. 3;H301 Skin Corr. 1A;H314 Eye Dam. 1;H318
< 5	Alcohol ethoxylate, C <sub>10-16</sub>	-	Polymer	-	-	Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318
< 5	Disodium metasilicate	6834-92-0	229-912-9	014-010-00-8	-	Skin Corr. 1B;H314 Eye Dam. 1;H318 STOT SE 3;H335
< 5	Disodium Cocoamphodipropionate	68604-71-7	271-704-5	-	-	Eye Irrit. 2;H319

Wording of hazard statements - see section 16.

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**SECTION 4: First-aid measures**


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**4.1. Description of first aid measures:**

Inhalation: Move the affected person to fresh air. Keep at rest. If needed: get medical attention.

Skin contact: Remove all contaminated clothing. Wash skin with water and mild soap. Seek medical advice; continue to flush on the way.

Eye contact: Immediately flush with water or physiological salt water for at least 15 minutes, holding eye lids open remember to remove contact lenses, if any. Get medical attention; continue to flush on the way.

Ingestion: Rinse mouth and drink plenty of water. **Do not induce vomiting.** If vomiting occurs, keep the head down to prevent gastric content from entering the lungs. Call an ambulance immediately.

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

Corrosion of skin, eyes, lungs and gastrointestinal tract. Headache, dizziness, coughing, laboured breathing and indisposition.

Inhalation of high concentration may cause risk of water in the lungs (lung oedema), with symptoms (laboured breathing) that might occur several hours after exposure.

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

Show this safety data sheet to a physician or emergency ward.

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**SECTION 5: Fire-fighting measures**


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**5.1. Extinguishing media:**

Use water spray, carbon dioxide, dry chemical or foam.

**5.2. Special hazards arising from the substance or mixture:**

Do not inhale smoke fumes. In case of fire, the substance may form hazardous decomposition products: Primarily oxides of carbon.

**5.3. Advice for firefighters:**

Wear self-contained breathing apparatus when generation of smoke is vigorous.

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**SECTION 6: Accidental release measures**


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**6.1. Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment - see section 8. Avoid further spreading. Ventilate area of leak or spill.

**6.2. Environmental precautions:**

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up:**

Absorb spilled liquid with inert material and place in a suitable container for disposal. Flush area of spill with plenty of water.

Further handling of spillage - see section 13.

**6.4. Reference to other sections:**

See references above.

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## SECTION 7: Handling and storage

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**7.1. Precautions for safe handling:**

AVOID ALL CONTACT – also during the preparation of the diluted solution. Avoid breathing vapours. Provide adequate ventilation. Change contaminated clothes immediately. Wash contaminated skin immediately with water and mild soap. Required access to water and eye wash fountain.

**7.2. Conditions for safe storage, including any incompatibilities:**

Store in tightly closed original container. Keep in a dry, non-freezing and well-ventilated place.

Store securely and out of reach of unauthorized personnel and separated from food, feed, drugs etc.

**7.3. Specific end use(s):**

See section 1.

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## SECTION 8: Exposure controls/Personal protection

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**8.1. Control parameters:**

Occupational exposure limits (EH40/2005):

Substance:	TWA (8 hour):	STEL (15 min.):	Comments:
Sodium hydroxide	-	2 mg/m <sup>3</sup>	-
Potassium hydroxide	-	2 mg/m <sup>3</sup>	-
DNEL/PNEC:	No CSR.		

**8.2. Exposure controls:**

Appropriate engineering controls: Ensure adequate ventilation.

Personal protective equipment:

Inhalation: In case of working in not adequate ventilated areas, use an approved mask with a particle filter: P2 (EN149). The filter has a limited lifetime and must be changed. Read the instruction.

Skin: Wear protective gloves of nitrile (> 0.3 mm) (EN374). It has not been possible to find data for breakthrough time. In case of spill on the glove it is recommended to change it after use.

Eyes: Wear tight fitting safety goggles (EN166).

Environmental exposure controls: None particular.

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## SECTION 9: Physical and chemical properties

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**9.1. Information on basic physical and chemical properties:**

Appearance:	Clear colourless liquid
Odour:	Weak uncharacteristic odour
Odour threshold:	No available data
pH:	13.5 (concentrate)
Melting point / freezing point (°C):	No available data
Initial boiling point and boiling range (°C):	~ 100
Decomposition temperature (°C):	No available data
Flash point (°C):	> 100
Evaporation rate:	No available data
Flammability (solid, gas):	Not relevant (liquid)
Upper/lower flammability or explosive limits (vol.-%):	No available data
Vapour pressure (mbar, 25°C):	No available data
Vapour density (air=1):	No available data
Relative density (g/ml):	~ 1
Solubility:	Completely soluble in water
Partition coefficient: n-octanol/water, Log K <sub>ow</sub> :	No available data
Auto-ignition temperature (°C):	No available data
Viscosity:	No available data
Explosive properties:	Not relevant
Oxidising properties:	Not relevant
<b>9.2. Other information:</b>	None relevant

## SECTION 10: Stability and reactivity

### 10.1. Reactivity:

No available data

### 10.2. Chemical stability:

Stable under normal conditions - see section 7.

### 10.3. Possibility of hazardous reactions:

None known.

### 10.4. Conditions to avoid:

Excessive heating or freezing.

### 10.5. Incompatible materials:

Generally avoid mixing with other chemicals, especially other detergents. May erode stainless steel and similar materials.

### 10.6. Hazardous decomposition products:

When heated to high temperatures (decomposition) toxic gasses are formed such as oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects:

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation	No available/applicable data.	-	-
Dermal	No available/applicable data.	-	-
Oral	LD <sub>50</sub> (rat) = 270 mg/kg (corrosion) (Potassium hydroxide)	No info.	RTECS
	LD <sub>50</sub> (rat) = 770 mg/kg (corrosion) (Disodium metasilicate)	No info.	ECHA
	LD <sub>50</sub> (rat) = 300-2000 mg/kg (Alcohol ethoxylate, C <sub>10-16</sub> )	No info.	RTECS
Corrosion/irritation:	Corrosion, eyes, rabbit (Sodium and potassium hydroxide)	No info.	IUCLID
	Severe skin irritation (50 mg/24H) human (Sodium and potassium hydroxide)	Draize	RTECS
	Irritation, skin "Severe", 250 mg/24H, human (Disodium metasilicate)	Draize	ECHA
	Severe irritation, eye, rabbit (Alcohol ethoxylate, C <sub>10-16</sub> )	No info.	RTECS
	Eye irritation, rabbit (Disodium Cocoamphodipropionate)	No info.	ECHA
Sensitization:	No skin sensitization, guinea pig (Sodium and potassium hydroxide)	Intracutaneous	IUCLID
CMR:	No available/applicable data	-	-

Information on likely routes of exposure: Inhalation, skin and ingestion.

Symptoms:

- Inhalation:** Corrosion of the respiratory tract. Headache, dizziness, coughing, laboured breathing and indisposition. High concentration may cause risk of water in the lungs (lung oedema). Be aware that symptoms (laboured breathing) may occur several hours after exposure.
- Skin:** Corrosive with pain, blisters and sores. Degreases skin.
- Eyes:** Corrosive with redness, pain and blurred vision. May induce permanent damage of cornea.
- Ingestion:** Corrosive for the mucous membranes in mouth, throat and stomach. Symptoms can be nausea, stomach ache, vomiting and headache. Rapid fall in blood pressure may occur.
- Chronic effects:** Long term or repeated skin contact with splashes and/or vapours may degrease the skin and cause red, dry, cracked and thickened skin.

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## SECTION 12: Ecological information

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**12.1. Toxicity:**

Alcohol ethoxylate, C<sub>10-16</sub> is toxic in the aquatic environment.

Aquatic	Data	Test (Media)	Data source
Fish	LC <sub>50</sub> (Rainbow trout - 96 h) = 1-5 mg/l (Alcohol ethoxylate, C <sub>10-16</sub> )	OECD 203 (FW)	EPA Ecotox
Crustaceans	EC <sub>50</sub> (Daphnia magna - 48 h) = 3-12 mg/l (Alcohol ethoxylate, C <sub>10-16</sub> )	OECD 202 (FW)	EPA Ecotox
Algae	No available applicable data	-	-

**12.2. Persistence and degradability:**

The surfactants in the product pass the ultimate biodegradability test according to EC regulation for surfactants in detergents.

Alcohol ethoxylate, C<sub>10-16</sub> is readily biodegradable (>60% BOD, 28d (OECD 301B)).

Potassium hydroxide and sodium hydroxide are inorganic substances, methods for the determination of the biological degradation is not applicable to inorganic substances

**12.3. Bioaccumulative potential:**

Alcohol ethoxylate, C<sub>10-16</sub>:  $1 < \log K_{ow} < 3$  – Moderate bioaccumulative.

**12.4. Mobility in soil:**

Alcohol ethoxylate, C<sub>10-16</sub>:  $\log K_{oc} \leq 15$  – large mobility in soil.

**12.5. Results of PBT and vPvB assessment:**

No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

**12.6. Other adverse effects:**

The mixture is a strong alkaline. May disturb the ecological balance.

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## SECTION 13: Disposal considerations

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**13.1. Waste treatment methods:**

The mixture is to be considered as hazardous waste. Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

**EWC-code:**

20 01 29 (mixture itself) and 15 02 02 (Inert material contaminated with the mixture)

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## SECTION 14: Transport information

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**14.1. UN-no.:** 1760

**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Potassium hydroxide)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** II (ADR/RID, IMDG)      **EMS:** F-A, S-B      **Stowage note:** Category A      **Segregation:** NONE

**14.5. Environmental hazards:** None.

**14.6. Special precautions for user:** None.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not relevant.

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## SECTION 15: Regulatory information

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

The concentrate must not be used by persons under 18 years of age.

The employer shall assess the working conditions and, if there is any risk to the safety or health and any effects on the pregnancy or breastfeeding of workers, take the necessary measures to adjust the working conditions (Directive 92/85/EEC).

Other labelling information (648/2004/EC):

< 5%    Non-ionic surfactants, Amphoteric surfactants, Phosphates

**15.2. Chemical Safety Assessment:**

No CSR.

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**SECTION 16: Other information**

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**Hazard statements mentioned in section 2 and 3:**

- H290: May be corrosive to metals.  
H301: Toxic if swallowed.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

**Abbreviations:**

- CMR = Carcinogenicity, mutagenicity and reproductive toxicity.  
CSR = Chemical Safety Report  
DNEL = Derived No-Effect Level  
EC<sub>50</sub> = Effect Concentration 50 %  
FW = Fresh Water  
LC<sub>50</sub> = Lethal Concentration 50 %  
LD<sub>50</sub> = Lethal Dose 50 %  
PBT = Persistent, Bioaccumulative, Toxic  
PNEC = Predicted No-Effect Concentration  
vPvB = very Persistent, very Bioaccumulative

**Literature:**

- EPA Ecotox = The US Environmental Protection Agency's database on ecotoxicological effects for chemicals.  
IUCLID = International Uniform Chemical Information Database.  
RTECS = Register of Toxic Effects of Chemical Substances.

**Training advice:**

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

**Changes since the previous edition:**

Section 1, 2, 3 (CLP)

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