SAFETY DATA SHEET

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

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

1.1. Product identifier:
IFOAM
UFI: HH20-G0HV-M00D-0H5W
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 of 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
National Poisons Information Centre (Ireland): +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

SECTION 2: Hazards identification

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.
Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2023/707.

SECTION 3: Composition/information on ingredients

3.2. Mixtures:

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.no.	Classification	SCL, M-factor, ATE
2-10	Sodium hydroxide	1310-73-2	215-185-5	011-002-00-6	-	Met. Corr. 1;H290 Skin Corr. 1A;H314 Eye Dam. 1;H318	Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %
2-10	Potassium hydroxide	1310-58-3	215-181-3	019-002-00-8	-	Met. Corr. 1;H290 Acute Tox. 4;H302 Skin Corr. 1A;H314 Eye Dam. 1;H318	ATE oral = 270 mg/kg Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %
< 5	Alcohol ethoxylate, C_{10-16}	68002-97-1	Polymer	-	-	Acute Tox 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318 Aquatic Acute 1;H400	ATE oral = 500 mg/kg
< 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 Cocoam-phodipropionate	68604-71-7	271-704-5	-	-	Eye Irrit. 2;H319	-

Wording of hazard statements - see section 16.

SECTION 4: First-aid measures

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.

SECTION 5: Firefighting measures

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.

SECTION 6: Accidental release measures

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.

SECTION 7: Handling and storage

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:
Occupational exposure limits, UK (EH40/ed.2020):

Substance	8-hour TWA	15-min STEL	Comments
Sodium hydroxide	-	2 mg/m^3	-
Potassium hydroxide	-	2 mg/m^3	-

Occupational exposure limit values, Ireland (2021):

Substance	8-hour TWA	15-min STEL	Notes
Sodium hydroxide	-	2 mg/m^3	-
Potassium hydroxide	-	2 mg/m^3	-

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 (EN ISO 16321-1).
Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical state:	Clear liquid
Colour:	Colourless
Odour:	Weak uncharacteristic odour
Melting point/freezing point (°C):	Not determined
Boiling point or initial boiling point and boiling range (˚C):	~ 100
Flammability (solid, gas):	Not relevant
Lower and upper explosion limit (vol-%):	Not determined
Flash point (°C):	> 100
Auto-ignition temperature (°C):	Not determined
Decomposition temperature (°C):	Not determined
pH:	13.5 (concentrate)
Kinematic viscosity:	Not determined

SECTION 9: Physical and chemical properties (continued)

Solubility:	Completely soluble in water
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure:	Not determined
Density and/or relative density (g/ml):	~ 1
Relative vapour density:	Not determined
Particle characteristics:	Not determined
9.2. Other information:	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 hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Skin Corr. 1A;H314 - Causes severe skin burns and eye damage.
Serious eye damage/irritation:	Eye Dam. 1;H318 - Causes serious eye damage.
Respiratory or skin sensitization:	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.

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation	No available/applicable data.	-	-
Dermal	No available/applicable data.	-	-
Oral	LD_{50} (rat) = 270 mg/kg (corrosion) (Potassium hydroxide)	No info.	RTECS
	LD_{50} (rat) = 770 mg/kg (corrosion) (Disodium metasilicate)	No info.	ECHA
	LD_{50} (rat) = 300-2000 mg/kg (Alcohol ethoxylate, C_{10-16})	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_{10-16})	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.

SECTION 11: Toxicological information (continued)

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.

11.2. Information on other hazards:

None known.

SECTION 12: Ecological information

12.1. Toxicity:

Alcohol ethoxylate, $C_{10\text{-}16}$ is toxic in the aquatic environment.

Aquatic	Data	Test (Media)	Data source
Fish	LC_{50} (Rainbow trout - 96 h) = 1-5 mg/l (Alcohol ethoxylate, $C_{10\text{-}16}$)	OECD 203 (FW)	EPA Ecotox
Crustaceans	EC_{50} (Daphnia magna - 48 h) = 3-12 mg/l (Alcohol ethoxylate, $C_{10\text{-}16}$)	OECD 202 (FW)	EPA Ecotox
Algae	No available applicable data	-	-

12.2. Persistence and degradability:

The surfactants in the product pass the ultimate biodegrability test according to EC regulation for surfactants in detergents.
Alcohol ethoxylate, $C_{10\text{-}16}$ 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, $C_{10\text{-}16}$: $1 < \log K_{ow} < 3$ – Moderate bioaccumulative.

12.4. Mobility in soil:

Alcohol ethoxylate, $C_{10\text{-}16}$: 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. Endocrine disrupting properties:

None known.

12.7. Other adverse effects:

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

SECTION 13: Disposal considerations

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)

SECTION 14: Transport information

14.1. UN number or ID number: 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. Maritime transport in bulk according to IMO instruments: Not relevant.

SECTION 15: Regulatory information

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.

SECTION 16: Other information

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:
ATE = Acute Toxicity Estimates
CMR = Carcinogenicity, mutagenicity and reproductive toxicity.
CSR = Chemical Safety Report
DNEL = Derived No-Effect Level
EC_{50} = Effect Concentration 50 %
FW = Fresh Water
LC_{50} = Lethal Concentration 50 %
LD_{50} = Lethal Dose 50 %
PBT = Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
SCL = Specific Concentration limits
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:
Revision of the format according to Regulation 2020/878.

Prepared by: Altox a/s – Tonsbakken 16-18 – DK-2740 Skovlunde - Phone +45 - 38 34 77 98 / KB - Quality control: PW