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<b>Degreaser foam</b>	
	According: Regulation (EC) 1907/2006

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Trade name : Degreaser foam  
 Synonyms : Art. 976791  
 Unique formula identifier (UFI) : 567X-U8A8-G008-YG8K

### 1.2 Relevant identified uses and uses advised against

Relevant identified uses : Washing and cleaning products: Cleaning agent, alkaline  
 Uses advised against : Unsuitable material: Aluminium.

### 1.3 Details of the supplier of the safety data sheet

Supplier : Hendi BV, Innovatielaan 6, 6745 XW De Klomp, The Netherlands  
 tel: +31 (0)317 681040  
 info@hendi.eu  
 www.hendi.eu

### 1.4 Emergency telephone number : +49(0)160-92250872

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLP Regulation (EC 1272/2008)

Hazard categories:  
 Skin corrosion/irritation: Skin Corr. 1A  
 Serious eye damage/eye irritation: Eye Dam. 1  
 Hazard Statements:  
 Causes severe skin burns and eye damage.

### 2.2 Label elements

CLP Regulation (EC 1272/2008)  
 Hazard components for labelling: potassium hydroxide; caustic potash, Dodecyldimethylamine oxide

Pictogram(s) : GHS05



Signal word : Danger

Hazard statement(s) : H314 Causes severe skin burns and eye damage.

Precautionary statement(s) : P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear protective gloves and eye/face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 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/doctor.

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### 2.3 Other hazards

: Further Information: Notice the directions for use on the label. To avoid risks to man and the environment, comply with the instructions for use. Labelling for contents according to regulation (EC) No. 648/2004: < 5 % non-ionic surfactants. Process vapours can irritate airways, skin and eyes.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

: Not relevant

### 3.2 Mixture:

Chemical name	CAS number	EC number Index nr	Registrationnr.	%	Hazard statements
Potassium hydroxide	1310-58-3	215-181-3 019-002-00-8	01-2119487136-33	5 - <10%	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	308062-28-4	931-292-6	01-2119490061-47	1 - <5%	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H315 H318 H400 H411

Full text of H and EUH statements: see section 16.

### Specific concentration limits and M-factors

Chemical name	CAS number	EC number	%	Specific concentration limits and M-factors
Potassium hydroxide	1310-58-3	215-181-3	5 - <10%	Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

General	: Take off immediately all contaminated clothing, including underwear and shoes. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect).
Inhalation	: Following inhalation: Move victim to fresh air. Consult physician. In case of breathing difficulties administer oxygen. Call a physician immediately. If victim is at risk of losing consciousness, position and transport on their side.
Contact with skin	: After contact with skin, wash immediately with: Water. Wash thoroughly the body (shower or bath).
Contact with eyes	: If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.
Ingestion	: Do NOT induce vomiting. Call a physician immediately. Let water be drunken in little sips (dilution effect). Do not leave affected person unattended.

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

Causes severe skin burns and eye damage.

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

Treat symptomatically.

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## SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray jet / Foam / Carbon dioxide (CO<sub>2</sub>) / Dry extinguishing powder / Extinguishing powder. Co-ordinate fire-fighting measures to the fire surroundings.
- Unsuitable extinguishing media : No information available.

### 5.2 Special hazards arising from the substance or mixture

- : No data available.

### 5.3 Advice for firefighters

- : Wear chemical resistant suit. In case of fire: Wear self-contained breathing apparatus.  
**Additional information:** Use water spray jet to protect personnel and to cool endangered containers.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment & emergency procedures:

- Wear personal protection equipment. Avoid contact with skin and eyes.

### 6.2 Environmental precautions

- : Contaminated fire-fighting water must be collected separately. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

- : High slip hazard because of leaking or spilled product. Remove persons to safety. Do not allow to enter into surface water or drains. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

### 6.4 Reference to other sections

- : For handling and storage – section 7.  
 For personal protection - section 8.  
 Disposal - section 13

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

- : Advice on safe handling: All work processes must always be designed so that the following is excluded: skin contact, eye contact, inhalation. Keep only in the original container.  
Further information on handling: Store only in original container.

### 7.2 Conditions for safe storage

- : Requirements for storage rooms and vessels: Keep locked up and out of the reach of children. Keep only in the original container in a cool, well-ventilated place.  
Hints on joint storage: Materials to avoid: Acid. Keep away from food, drink and animal feeding stuffs.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure limits (EH40)

Substance	CAS number	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
Potassium hydroxide	1310-58-3	-	2		STEL (15min)	WEL

Additional advice on limit values: Observe in addition any national regulations!

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## 8.2. Exposure controls



### Protective and hygiene measures

Do not eat, drink, smoke or snort at the workplace. Wash hands before breaks and after work. Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Keep away from: food stuff, animal feed. Contact with the skin and inhalation of aerosols / vapours from the preparation must be avoided.

### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. Eye-shade. German Industry Norms (DIN) / European Norms (EN): DIN EN 165

### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The instructions and details of the protective glove manufacturer for use, storage, maintenance and replacement must be followed.

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

### Skin protection

Suitable protective clothing: Apron, boots. Required properties: liquid-tight. leachate-proof. The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace.

### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values. With correct and proper use, and under normal conditions, breathing protection is not required.

Suitable respiratory protective equipment: Full-/Half-/Quarter-Masks (DIN EN 136/140).

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light yellow
Odour:	product-specific
pH-Value (at 20°C):	14

#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	ca. 100°C
Sublimation point:	not determined
Softening point:	not determined
Flash point:	not determined

#### Flammability

Solid:	non-flammable
Gas:	not determined
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

#### Auto-ignition temperature

Solid:	not determined
Gas:	not determined

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Vapour pressure: not determined  
 Density (at 20°C): 1,1 g/cm<sup>3</sup>  
 Bulk density: not determined

**Solubility in other solvents** not determined  
 Partition coefficient: not determined  
 Viscosity / dynamic: not determined  
 Viscosity / kinematic: not determined  
 Flow time: not determined  
 Vapour density: not determined  
 Evaporation rate: not determined  
 Solvent separation test: not determined  
 Solvent content: not determined

**9.2. Other information**

Solid content: not determined

**SECTION 10. STABILITY AND REACTIVITY**

- 10.1 Reactivity** : The product develops hydrogen in an aqueous solution in contact with metals. May be corrosive to metals.
- 10.2 Chemical stability** : The product is chemically stable under recommended conditions of storage, use and temperature.
- 10.3 Possibility of hazardous reactions** : The product is chemically stable under recommended conditions of storage, use and temperature.
- 10.4 Conditions to avoid** : Protect against: frost.
- 10.5 Incompatible materials** : Strong reaction with: Acid.
- 10.6 Hazardous decomposition products:** The product is chemically stable under recommended conditions of storage, use and temperature.

**SECTION 11. TOXICOLOGICAL INFORMATION**
**11.1 Information on toxicological effects**
**Toxicokinetic, metabolism and distribution**

There are no data available on the preparation/mixture itself.

**Acute toxicity**

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

Chemical name Exposure route	CAS number	Dose	Species	Source
Potassium hydroxide oral	1310-58-3	LD50 333 mg/kg	Rat	
Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides oral	308062-28-4	ATE 500 mg/kg		

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

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**Sensitizing effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**TOT- 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.

**Specific effects in experiment on an animal**

There are no data available on the preparation/mixture itself.

**Practical experience:**

Observations relevant to classification: No information available.

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity** : There are no data available on the preparation/mixture itself.

Chemical name Aquatic toxicity	CAS number	Dose	[h] [d]	Species	Source
Potassium hydroxide	1310-58-3				
Acute fish toxicity		LC50 80 mg/l	96 h	Gambusia affinis	IUCLID

**12.2 Persistence and degradability** : The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**12.3 Bio accumulative potential** : No indication of bio-accumulation potential.

**12.4 Mobility in soil** : No data available.

**12.5 Results of PBT & vPvB assessment** : The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

**12.6. Other adverse effects** : No data available.

**Further information:** Product may not be released into water without pre-treatment.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods** :

**Disposal recommendations**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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#### Contaminated packaging

Completely emptied packings can be re-cycled.

### SECTION 14. TRANSPORT INFORMATION

#### Land transport (ADR/RID)

14.1. UN number: UN 1814  
 14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: II



Hazard label: 8  
 Classification code: C5  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 80  
 Tunnel restriction code: E

#### Inland waterways transport (ADN)

14.1. UN number: UN 1814  
 14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: II



Hazard label: 8  
 Classification code: C5  
 Limited quantity: 1 L  
 Excepted quantity: E2

#### Marine transport (IMDG)

14.1. UN number: UN 1814  
 14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: II



Hazard label: 8  
 Special Provisions: -  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-A, S-B

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#### Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1814  
 14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: II



Hazard label: 8  
 Special Provisions: A3 A803  
 Limited quantity Passenger: 0.5 L  
 Passenger LQ: Y840  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 851  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 855  
 IATA-max. quantity - Cargo: 30 L

#### 14.5. Environmental hazards

Environmentally hazardous: No

### SECTION 15. REGULATORY INFORMATION

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3  
 2010/75/EU (VOC): < 3 %

##### Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)  
 Labelling according to Regulation (EC) No. 1272/2008 [CLP]  
 Classification according to Regulation (EC) No 1272/2008 [CLP]

##### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16. OTHER INFORMATION

#### 16.1 Revision comments

A vertical line in the left margin indicates that there is a relevant amendment from the previous version.

#### 16.2 Abbreviations and acronyms used in the safety data sheet

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%

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**Relevant H and EUH statements (number and full text)**

H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.

**16.3 References and sources for data** : Safety data sheet manufacturer

**16.4 Training advice**

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

**16.5 Other information and disclaimer**

All information given in this Safety Data Sheet is exclusively related to the product described and is provided assuming that the product will be used in a way and for the purposes as stated by the manufacturer. The information is based on our present state of knowledge and will be reviewed regularly. This Safety Data Sheet has only been set up with the intention to describe the safety aspects of the product and therefore should not be construed as guaranteeing specific properties of the product of concern or its suitability for a particular application. It is the user's own responsibility to take the precautionary measures described and also to take care that this information is complete and adequate for the use of this product. It is recommended to pass through the information in this Safety Data Sheet, whenever necessary in an adapted form, to all staff and interested parties of concern.

- *Changes, printing and typesetting errors reserved.*