

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

### 1.1 Product Identifier:

Trade name: **ULTRAFLOW C.5**

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

**Product category:** PC35 Washing and cleaning products (including solvent based products)

**Application of the substance / the mixture:** Professional use only

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

#### Manufacturer / Importer / Supplier:

Hygeniq  
Postbus 618  
7500 AP Enschede  
The Netherlands  
Tel.: +31 53 4282860  
Fax: +31 53 5393865  
Email: info@hygeniq.com  
www.hygeniq.com

**Further information obtainable from:** Product safety department.

### 1.4 Emergency telephone number:

Only for DOCTORS / FIRE BRIGADE / POLICE:

NL-Phone: +31 53 4282860

(During office hours)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008:**



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

### 2.2 Label elements:

**Labelling according to Regulation (EC) No 1272/2008:** The product is classified and labelled according to the CLP regulation.

**Hazard pictograms:** GHS05, GHS07

**Signal word:** Danger

### Hazard-determining components of labelling:

potassium hydroxide

### Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

### Precautionary statements:

P260 Do not breathe dusts or mists.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards:

#### Results of PBT and vPvB assessment:

**PBT:** Not applicable.



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vPvB: Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures:

**Description:** Mixture of substances listed below, possibly with non-hazardous additions.

##### Components:

CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8 Reg.nr.: 01-2119487136-33	potassium hydroxide ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302	10-25%
CAS: 164462-16-2 ELINCS: 423-270-5 Reg.nr.: 01-0000016977-53	Alanine, N,N-bis(carboxymethyl-), trisodiumsalt ⚠ Met. Corr. 1, H290	2.5-10%

**Additional information:** For the wording of the listed hazard phrases See section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures:

##### General information:

Persons, providing assistance, should avoid exposure and danger for themselves or others.

In case of irregular breathing or respiratory arrest provide artificial respiration.

##### After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

##### After skin contact:

Remove and wash contaminated clothing before re-use.

Rinse with plenty of water and wash with soap.

If skin irritation continues, consult a doctor.

##### After eye contact:

Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

If possible, remove contact lenses.

##### After ingestion:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media:

##### Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

All extinguishing media are possible.

**5.2 Special hazards arising from the substance or mixture:** No further relevant information available.

##### 5.3 Advice for firefighters:

**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information:** Cool endangered tanks with water spray.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

#### 6.2 Environmental precautions:

Remainder dilute with plenty of water.

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Do not allow to enter sewers/ surface or ground water.

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

Capture leaked waste liquid in corrosion resistant vessels.

Use neutralising agent.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Do not eat, drink or smoke while working.

In the immediate vicinity of any potential exposure source, eye wash stations and emergency showers should be available.

**Information about fire and explosion protection:** No special measures required.

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

**Storage:**

**Requirements to be met by storerooms and tanks:** Store only in the original receptacle.

**Information about storage in one common storage facility:** Store away from oxidising agents.

**Further information about storage conditions:**

Protect from frost.

Store receptacle in fume cupboard.

**7.3 Specific end use(s):** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see section 7.

**8.1 Control parameters:**

<b>Ingredients with limit values that require monitoring at the workplace:</b>		
<b>1310-58-3 potassium hydroxide</b>		
WEL (Great Britain)		Short-term value: 2 mg/m <sup>3</sup>
<b>DNELs</b>		
<b>1310-58-3 potassium hydroxide</b>		
Inhalative	Long-term - systemic effects	1 mg/m <sup>3</sup> (Consumer) 1 mg/m <sup>3</sup> (Worker)
<b>1310-73-2 sodium hydroxide</b>		
Inhalative	Long-term - local effects	1 mg/m <sup>3</sup> (Worker)

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

**Respiratory protection:** Not necessary if room is well-ventilated.

**Protection of hands:** Only use chemical-protective gloves with CE-labelling of category III.

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Gloves Neo-Nitrile™ 300 – AQL or 0.65 (level 3). Thickness-0.35 mm.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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### Eye protection:

Goggles recommended during refilling



Tightly sealed goggles

**Body protection:** Protective work clothing

**Limitation and supervision of exposure into the environment:** Prevent spills from reaching surface waters or soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

#### General Information:

#### Appearance:

Form:	Liquid.
Colour:	Colourless.
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value (10 g/l) at 20 °C: ca. 12.5

#### Change in condition

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	100 °C

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not self-igniting.

Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure at 20 °C: 23 hPa

Density at 20 °C:	1.276 g/cm <sup>3</sup>
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.

#### Solubility in / Miscibility with:

Water:	Fully miscible.
Refraction Index:	1.398

Partition coefficient: n-octanol/water: Not determined.

#### Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

9.2 Other information: No further relevant information available.

## SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under recommended conditions.

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## 10.2 Chemical stability:

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions:** Reacts with acids.

**10.4 Conditions to avoid:** Heat

**10.5 Incompatible materials:** Strong acids

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### Acute toxicity:

Harmful if swallowed.

#### LD/LC50 values relevant for classification:

##### ATE (Acute Toxicity Estimates)

Oral	LD50	1,820 mg/kg (Rat)
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##### 1310-58-3 potassium hydroxide

Oral	LD50	273 mg/kg (Rat)
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##### 1310-73-2 sodium hydroxide

Oral	LD50	1,350 mg/kg (Rat)
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#### Primary irritant effect:

##### Skin corrosion/irritation:

Causes severe skin burns and eye damage.

##### Serious eye damage/irritation:

Causes serious eye damage.

**Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.

##### CMR effects (carcinogenic, mutagenic and reprotoxic):

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

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

**Reprotoxicity:** 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.

## SECTION 12: Ecological information

### 12.1 Toxicity:

#### Aquatic toxicity:

##### 1310-58-3 potassium hydroxide

LC50/96h	80 mg/l (Fish)
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EC50/96h	>10 mg/l (Daphnia Magna)
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##### 1310-73-2 sodium hydroxide

LC50/96h	125 mg/l (Fish)
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EC50/24h	76 mg/l (Daphnia Magna)
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EC50 / 15min	22 mg/l (Bateria)
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**12.2 Persistence and degradability:** Anorganic

**12.3 Bioaccumulative potential:** Bioaccumulation is not expected.

**12.4 Mobility in soil:** No further relevant information available.

#### Additional ecological information:

##### General notes:

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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### 12.5 Results of PBT and vPvB assessment:

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects:** No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:



**Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

### Contaminated packaging:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

<b>14.1 UN-Number:</b> ADR/RID/ADN, IMDG, IATA	UN3266
<b>14.2 UN proper shipping name:</b> ADR/RID/ADN:  IMDG, IATA	3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE) CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE)
<b>14.3 Transport hazard class(es):</b> ADR/RID/ADN:	
	
<b>Class:</b> <b>Label:</b>	8 (C5) Corrosive substances. 8
IMDG, IATA	
	
<b>Class:</b> <b>Label:</b>	8 Corrosive substances. 8
<b>14.4 Packing group:</b> ADR/RID/ADN, IMDG, IATA	II
<b>14.5 Environmental hazards:</b> Marine pollutant:	No
<b>14.6 Special precautions for user:</b> Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Stowage Code Segregation Code	Warning: Corrosive substances. 80 F-A,S-B Alkalis B SW2 Clear of living quarters. SG35 Stow "separated from" SGG1-acids

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**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not applicable.

**Transport/Additional information:**

**ADR/RID/ADN:**

**Limited quantities (LQ):**

1L

**Excepted quantities (EQ):**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**Transport category:**

2

**Tunnel restriction code:**

E

**IMDG:**

**Limited quantities (LQ):**

1L

**Excepted quantities (EQ):**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**UN "Model Regulation":**

UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE), 8, II

## SECTION 15: Regulatory information

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

**Directive 2012/18/EU:**

**Named dangerous substances - ANNEX I:** None of the ingredients are listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII:** Conditions of restriction: 3

**National regulations:**

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

**Relevant phrases:**

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

**Training hints:** Take care of good information, instruction and training for users.

**Department issuing SDS:** Environment protection department.

**Abbreviations and acronyms:**

ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

EC50: Effective Concentration, 50 percent

IOELVs: Indicative Occupational Exposure Limit Values

mPa.s: milliPascal per second

Met. Corr. 1: Corrosive to metals – Category 1

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Acute Tox. 4: Acute toxicity - oral – Category 4  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

### References:

This information is based on the current available data (suppliers of raw materials, chemistry maps, Annex VI)  
See also the internet site: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

**Revisions were made in sections marked with \*.**

### Disclaimer:

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