

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the substance or preparation**

**City Clean O**

**Use of the substance/preparation**

Cleaner

**Company/undertaking identification**

HILCO Chemie B.V., Postfach 105, NL -6674 ZJ HERVELD  
 Telephone 0031 488473330, Fax 0031 488473331

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

**Emergency telephone**

**Advisory office in case of poisoning:**

Tel.:

**Telephone number of the company in case of emergencies:**

Tel. 0031 488473330

### 2. HAZARDS IDENTIFICATION

**To people**

See point 11 and 15.  
 Preparation is classified as hazardous in the sense of directive 1999/45/EC.  
 Due to the pH-level, product is classified as corrosive.  
 35 Causes severe burns.

**To the environment**

See point 12.  
 High pH-value can be harmful to water.

### REGULATION (EC) No 648/2004

5 % or over but less than 15 %  
 anionic surfactants  
 less than 5 %  
 non-ionic surfactants  
 phosphonates

perfumes  
 LIMONENE

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name			
content %	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)		
Sodium alkylbenzene sulfonate			
1 - 10	Xn/Xi	22-38-41	270-115-0

Chemical name	

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content %	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)		

Sodium hydroxide			
2 -< 5	C	35	215-185-5

Chemical name			
content %	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)		

Fatty alcohol ethoxylates			
1 - 5	Xn/Xi	22-41	

Chemical name			
content %	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)		

2-Butoxyethanol			
1 - 5	Xn/Xi	20/21/22-36/38	203-905-0

For complete wording of the R-phrases / H-phrases (GHS/CLP), refer to point 16.

## 4. FIRST AID MEASURES

Never pour anything into the mouth of an unconscious person!  
 If the person is unconscious, place in a stable side position and consult a doctor.

### 4.1 Inhalation

Remove person from danger area.  
 Supply person with fresh air and consult doctor according to symptoms.

### 4.2 Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Cauterizations not treated lead to wounds difficult to heal.

### 4.2 Eye contact

Remove contact lenses.  
 Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.  
 Protect uninjured eye.  
 Consult medical specialist.

### 4.4 Ingestion

Rinse the mouth thoroughly with water.  
 Do not induce vomiting - give copious water to drink. Consult doctor immediately.

### 4.5 Special resources necessary for first aid

There should be an eyewash station and safety shower located near the area of use.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher

### 5.2 Extinguishing media which shall not be used for safety reasons

High volume water jet

### 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon  
 Oxides of sulphur  
 Toxic pyrolysis products.

### 5.4 Special protective equipment for fire-fighters

In case of fire and/or explosion do not breathe fumes.  
 Protective respirator with independent air supply.  
 According to size of fire  
 Full protection, if necessary

## 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

## 6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

### 6.1 Personal precautions

Ensure sufficient supply of air.  
 Avoid contact with eyes or skin.  
 If applicable, caution - risk of slipping

### 6.2 Environmental precautions

If leakage occurs, dam up.  
 Prevent surface and ground-water infiltration, as well as ground penetration.  
 Prevent from entering drainage system.  
 If accidental entry into drainage system occurs, inform responsible authorities.

### 6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium, sand, kieselguhr, sawdust), and dispose of according to point 13.  
 Neutralising is possible (only from a specialist).  
 Diluting with water is possible.  
 Flush residue using copious water.

## 7. HANDLING AND STORAGE

### 7.1 Handling

#### Tips for safe handling:

See point 6.1  
 Ensure good ventilation.  
 Avoid contact with eyes or skin.  
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
 Observe directions on label and instructions for use.  
 Use working methods according to operating instructions.

### 7.2. Storage

#### Requirements for storage rooms and containers:

Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 Do not store with acids.  
 Do not use alkali sensitive materials.  
 Alkali-resistant floor necessary.

#### Special storage conditions:

See point 10  
 Protect from frost.  
 Keep out of access to unauthorised individuals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values

Chemical Name	Sodium hydroxide	Content %:2 -<
WEL-TWA: ---	WEL-STEL: 2 mg/m3	5
BMGV: ---	Other information: ---	
Chemical Name	2-Butoxyethanol	Content %:1 - 5
WEL-TWA: 25 ppm (123 mg/m3) (WEL), 20 ppm (98 mg/m3) (EC)	WEL-STEL: 50 ppm (246 mg/m3) (WEL, EC)	---
BMGV: 240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV)	Other information: Sk (WEL)	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through

skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

## 8.2 Exposure controls

### 8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Gas mask filter A (EN 14387)

Observe wearing time limitations for respiratory protection equipment.

Hand protection:

Use alkali resistant protective gloves (EN 374).

If applicable

Safety gloves made of butyl (EN 374)

Protective nitrile gloves (EN 374)

Protective PVC gloves (EN 374)

Protective hand cream recommended.

Eye protection:

Tight fitting protective goggles with side protection (EN 166).

If applicable

Face protection (EN 166)

Skin protection:

Alkali-resistant protection clothing (EN 13034)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.2 Environmental exposure controls

n.av.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information

Physical state:	Liquid
Colour:	Brown, Orange, Red
Odour:	Slightly perfumed

### 9.2. Important health, safety and environmental information

pH-value undiluted:	13,5
Boiling point/boiling range (°C):	Not specified
Melting point/melting range (°C):	Not detected
Flash point (°C):	n.a.
Oxidising properties:	No
Minimum limit of explosion:	Not detected
Maximum limit of explosion:	Not detected
Vapour pressure:	Not detected
Density (g/ml):	1,04
Water solubility:	Soluble
Viscosity:	Not detected

## 10. STABILITY AND REACTIVITY

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### Conditions to avoid

See point 7

Stable when handled and stored correctly.

### Materials to avoid

See point 7

Avoid contact with strong acids.

Avoid contact with alkali sensitive materials.

Avoid contact with certain metals e.g. aluminium (development of hydrogen gas possible).

### Hazardous decomposition products

See point 5.3

No decomposition when used as directed.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):

See point 15.

Inhalation, LC50 rat inhal.(mg/l/4h):

n.av.

Skin contact, LD50 rat dermal (mg/kg):

See point 15.

Eye contact:

See point 15.

### Delayed and chronic effects

Sensitization:

n.c.

Carcinogenicity:

n.c.

Mutagenicity:

n.c.

Reproductive toxicity:

n.c.

Narcosis:

n.c.

### Further information

The product was not tested.

Classification based on the pH value.

The following may occur:

Corrosive burns on skin as well as mucous membrane possible.

Necrosis

Risk of serious damage to eyes.

Corneal damage.

Danger of blindness

Ingestion:

Pain in the mouth and throat

Gastrointestinal disturbances

Oesophageal perforation

Gastric perforation

## 12. ECOLOGICAL INFORMATION

The product was not tested.

Persistence and degradability:

The surfactant(s) contained in this preparation complies(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.

Readily biodegradable (95% OECD 301E, > 99% OECD 302B) \*

Behaviour in sewage plants:

Note pH value

According to the recipe, contains no AOX.

Aquatic toxicity:

n.av.

Ecological toxicity:

n.av.

Mobility:

n.av.

Accumulation:

n.av.

Results of PBT assessment

n.av.

Other adverse effects:

n.av.

\* 2-Butoxyethanol

## 13. DISPOSAL CONSIDERATIONS

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### 13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.  
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

07 06 01 aqueous washing liquids and mother liquors

20 01 29 detergents containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Recommended cleaner:


Water

## 14. TRANSPORT INFORMATION

### General statements

UN-Number: 1719

### Road/Rail-transport (ADR/RID)

Class/packing group: 8/II 

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S (SODIUM HYDROXIDE,DISODIUM TRIOXOSILICATE)

Classification code: C5

LQ: 22

Tunnel restriction code: E

### Transport by sea

IMDG-code: 8/II (class/packing group)

EmS: F-A, S-B 

Marine Pollutant: n.a

CAUSTIC ALKALI LIQUID, N.O.S (SODIUM HYDROXIDE,DISODIUM TRIOXOSILICATE)

### Transport by air

IATA: 8/-/II (class/secondary danger/packing group)

Caustic alkali liquid, n.o.s (SODIUM HYDROXIDE,DISODIUM TRIOXOSILICATE) 

### Additional information:

Danger code and packing code on request.

## 15. REGULATORY INFORMATION

### Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: C 

Indications of danger:

Corrosive

R-phrases:

35 Causes severe burns.

S-phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

35 This material and its container must be disposed of in a safe way.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Additions:

Sodium hydroxide

Observe restrictions: Yes

Observe youth employment law (German regulation).

Regulation (EC) No 1907/2006, Annex XVII.

VOC (1999/13/EC): < 2% w/w

## 16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany):

8 B L

Revised points:

n.a.

The following phrases represent the prescribed R-phrases / H-phrases (GHS/CLP) for the ingredients (designated in point 3).

22 Harmful if swallowed.

38 Irritating to skin.

41 Risk of serious damage to eyes.

35 Causes severe burns.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

### Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference

period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Chemical Check GmbH, Wöbbeler Straße 2-4, D-32839 Steinheim, Tel.: +49 5233 94 17 0, +49 1805-  
CHEMICAL / +49 180 52 43 642, Fax: +49 5233 94 17 90, +49 180 50 50 455**

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