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

## 1.1. Product identifier

### Trade name

Orbin S-OC

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

### Use of the substance/mixture

Cleaning agent/ Cleaner

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

### Address/Manufacturer

BÜFA Cleaning GmbH & Co. KG

August-Hanken-Str. 30 26125 Oldenburg

Telephone no. +49 441 9317 0 Fax no. +49 441 9317 100

Information provided Department product safety / +49 441 9317 108

by / telephone

E-Mail sds-cleaning@buefa.de

#### 1.4. Emergency telephone number

Poison Information Center Goettingen: +49 551 19240

## **SECTION 2: Hazards identification \*\*\***

## 2.1. Classification of the substance or mixture

## Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1A H314 Eye Dam. 1 H318 Aquatic Chronic 3 H412 Met. Corr. 1 H290

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

## 2.2. Label elements

## Labelling according to regulation (EC) No 1272/2008

## Hazard pictograms \*\*\*



## Signal word

Danger

## **Hazard statements**

H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

H290 May be corrosive to metals.

## **Precautionary statements**

P273 Avoid release to the environment.

P280.2 Wear protective gloves/ eye/ face protection.

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



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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 or doctor.

## Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains \*\*\* Sodium hydroxide; Amines, C12-C14-Alkyldimethyl-N-oxides

#### 2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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

#### 3.2. Mixtures

#### **Hazardous ingredients**

#### sodium hydroxide

CAS No. 1310-73-2 EINECS no. 215-185-5

Registration no. 01-2119457892-27-XXXX

Concentration >= 5 < 10 %

 Skin Corr. 1A
 H314

 Met. Corr. 1
 H290

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319 >= 0,5 < 2 % Skin Corr. 1A H314 >= 5 % Skin Corr. 1B H314 >= 2 < 5 % Skin Irrit. 2 H315 >= 0,5 < 2 %

#### Amines, C12-C14-Alkyldimethyl-N-oxides

CAS No. 308062-28-4 EINECS no. 931-292-6

Registration no. 01-2119490061-47-XXXX

Concentration >= 3 < 10 %

Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 2 H411 Acute Tox. 4 H302 Skin Irrit. 2 H315

ATE oral 1.064 mg/kg

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### After inhalation

Ensure supply of fresh air. Summon a doctor immediately.

#### After skin contact

Wash off immediately with soap and water.

## After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. Seek medical advice immediately.



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#### After ingestion

Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet.

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

There is no further relevant information available

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

There is no further relevant information available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Extinguishing measures to suit surroundings

## Non suitable extinguishing media

Full water jet

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

In case of combustion evolution of dangerous gases possible. If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

## 5.3. Advice for firefighters

Use self-contained breathing apparatus.

Cool endangered containers with water spray jet.

## **SECTION 6: Accidental release measures**

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

Keep people away and stay on the upwind side. Use breathing apparatus if exposed to vapours/dust/aerosol. Use personal protective clothing.

#### 6.2. Environmental precautions

Do not allow to enter drains or waterways.

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

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary).

Containers in danger should be cooled with water.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Provide alkali-resistant floor. Store product in closed containers.

Do not store together with: Acids, Aluminium

Keep container tightly closed.

## 7.3. Specific end use(s)

No information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

**Exposure limit values** 



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sodium hydroxide

List EH40 Type WEL

Short term exposure limit 2 mg/m³

#### 8.2. Exposure controls

## General protective and hygiene measures

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter B

#### Hand protection

Chemical resistant gloves

Appropriate Material nitrile

Material thickness >= 0,7 mm Breakthrough time > 480 min

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

## Eye protection

Tightly fitting safety glasses

#### **Body protection**

Alkali-resistant protective clothing

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state liquid colourless
Odour Product specific

**Melting point** 

Remarks not determined

**Boiling point** 

Remarks not determined

**Flammability** 

evaluation not determined

**Explosion limits** 

Remarks not determined

Flash point

Value > 100 °C

Ignition temperature

Remarks not determined

Thermal decomposition

Remarks Not relevant

pH value

Value 11,5 to 12,5



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**Viscosity** 

Value appr. 15 s

Method DIN 53211 4 mm

Solubility in other solvents

not determined

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

Vapour pressure

Remarks not determined

**Density** 

Value appr. 1,08 kg/l

Vapour density

Remarks not determined

**Particle characteristics** 

Remarks irrelevant (liquid)

9.2. Other information

**Odour threshold** 

Remarks No data available

Solubility in water

Remarks miscible

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Corrodes aluminium.

## 10.2. Chemical stability

The product is stable.

## 10.3. Possibility of hazardous reactions

Strong exothermic reaction with acids.

## 10.4. Conditions to avoid

Protect from heat and direct sunlight.

## Thermal decomposition

Remarks Not relevant

## 10.5. Incompatible materials

Strong exothermic reaction with acids. Reactions with metals, with evolution of hydrogen.

## 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

### **Acute oral toxicity**

ATE > 10.000 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)

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

## **Acute oral toxicity (Components)**

## Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance Amines, C12-C14-Alkyldimethyl-N-oxides



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Species rat

LD50 1064 mg/kg

## **Acute dermal toxicity**

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

## Acute inhalational toxicity

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

#### Skin corrosion/irritation

evaluation corrosive
The classification criteria are met.

### Serious eye damage/irritation

evaluation corrosive The classification criteria are met.

#### Sensitization

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

#### Sensitization (Components)

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

## Mutagenicity

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

#### Reproductive toxicity

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

#### Carcinogenicity

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

#### Specific Target Organ Toxicity (STOT)

#### Single exposure

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

## Repeated exposure

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

#### **Aspiration hazard**

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

#### 11.2 Information on other hazards

## Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

## Fish toxicity

## sodium hydroxide

Reference substance sodium hydroxide

LC50 35 to 189 mg/l

Duration of exposure 96 h

## Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance Amines, C12-C14-Alkyldimethyl-N-oxides LC50 2,67 mg/l

#### **Daphnia toxicity**

#### sodium hydroxide

Reference substance sodium hydroxide Species Ceriodaphnia spec

EC50 40,4 mg/l



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Duration of exposure 48 h

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance Amines, C12-C14-Alkyldimethyl-N-oxides

Species Daphnia pulex

EC50 3,1 mg/l

Algae toxicity

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance Amines, C12-C14-Alkyldimethyl-N-oxides IC50 0.143 mg/l

**Bacteria toxicity** 

For this subsection there is no ecotoxicological data available on the product as such.

12.2. 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.Do not discharge product unmonitored into the environment.

Biodegradability

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance Amines, C12-C14-Alkyldimethyl-N-oxides

evaluation biodegradable

12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

The product contains no PBT substances. The product contains no vPvB substances.

12.6 Endocrine disrupting properties

**Endocrine disrupting properties with respect to the envrionment** 

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

Behaviour in sewers [waste treatment plants]

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

# **SECTION 14: Transport information**



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	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	1824	1824
14.2. UN proper shipping name	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es)	8	8
14.4. Packing group	11	II
Label		8
14.5. Environmental hazards		
	<u>-</u>	<u>-</u>
Limited Quantity	11	11
Transport category	2	
Tunnel restriction code	E	
Hazard id. no.	80	
EmS		F-A, S-B

## Information for all modes of transport

## 14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Other information

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

Ingredients (Regulation (EC) No 648/2004)

less than 5 %:

non-ionic surfactants, anionic surfactants

**Further ingredients** 

bronopol (INN)

VOC

VOC (EU) 0 %

## Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of



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Regulation (EC) No. 1907/2006 (REACH).

## 15.2. Chemical safety assessment

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

## **SECTION 16: Other information**

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Aquatic Chronic 3	H412	Calculation method
Met. Corr. 1	H290	Calculation method

#### Hazard statements listed in Chapter 2/3

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.
H412 Harmful to aquatic life with long lasting effects.

## CLP categories listed in Chapter 2/3

Acute Tox. 4 Acute toxicity, Category 4

Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3

Eye Dam. 1 Serious eye damage, Category 1

Met. Corr. 1 Substance or mixture corrosive to metals, Category 1

Skin Corr. 1A Skin corrosion, Category 1A Skin Irrit. 2 Skin irritation, Category 2

## **Abbreviations**

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

GGVSee: Gefahrgutverordnung See

IMDG: International Maritime Code for Dangerous Goods

CAS: Chemical Abstracts Service EAK: Europäischer Abfallkatalog

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Compound GefStoffV: Gefahrstoffverordnung

TA Luft: Technische Anleitung zur Reinhaltung der Luft INCI: International Nomenclature of Cosmetic Ingredients

n.a.g.: nicht anders genannt

MAK: Maximale Arbeitsplatz-Konzentration

AGW: Arbeitsplatzgrenzwert BGW: Biologischer Grenzwert

TRGS: Technische Regeln für Gefahrstoffe

OEL: Occupational exposure limit

SUVA: Schweizerische Unfallversicherungsanstalt

WEL: Workplace exposure limit

MAC: Maximale aanvaarde concentratie (Netherlands)

MEL: Maximum exposure limits NOEL: No observable effect level

NOEC: No observable effect concentration

LD: Lethal dose

LC: Lethal concentration

LLC: Lowest lethal concentration



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PBT: Persistent, Bioaccumulative and Toxic vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

DNEL: Derived no effect level
DMEL: Derived minimal effect level
PNEC: Predicted no effect concentration
PEC: Predicted environmental concentration

GHS: Globally Harmonized System of classification and Labelling of Chemicals REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

**UN: United Nations** 

EG: Europäische Gemeinschaft

EWG: Europäische Wirtschaftsgemeinschaft

EU: European Union

HSNO: Hazardous Substances and New Organisms Act (New Zealand)

ATE: Acute Toxicity Estimate

STOT: Specific Target Organ Toxicity

## Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\* This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.