

* Orbin SEPT

Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

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

1.1. Product identifier

Trade name

Orbin SEPT

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

Use of the substance/mixture

Foam disinfectant

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 Acute 1 H400

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.

H400 Very toxic to aquatic life.

* Orbin SEPT

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Print date: 07.05.2024

H290 May be corrosive to metals.

Precautionary statements ***

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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.

P390 Absorb spillage to prevent material damage.

P310 Immediately call a POISON CENTER or doctor.

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

contains *** sodium hydroxide; Potassium hydroxide; Sodium hypochlorite, solution; Amines, C12-C14-Alkyldimethyl-N-oxides

Sensitising substances**Supplemental information *****

EUH031 Contact with acids liberates toxic gas.

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 $\geq 0,5$ < 2 %Skin Corr. 1A H314 ≥ 5 %Skin Corr. 1B H314 ≥ 2 < 5 %Skin Irrit. 2 H315 $\geq 0,5$ < 2 %**Potassium hydroxide**

CAS No. 1310-58-3

EINECS no. 215-181-3

Registration no. 01-2119487136-33-XXXX

Concentration ≥ 2 < 3 %

Acute Tox. 4 H302

Skin Corr. 1A H314

Met. Corr. 1 H290

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

Eye Irrit. 2 H319 $\geq 0,5$ < 2 %Skin Corr. 1A H314 ≥ 5 %Skin Corr. 1B H314 ≥ 2 < 5 %Skin Irrit. 2 H315 $\geq 0,5$ < 2 %

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ATE oral 333 mg/kg

Amines, C12-C14-Alkyldimethyl-N-oxides

CAS No. 308062-28-4

EINECS no. 931-292-6

Registration no. 01-2119490061-47-XXXX

Concentration >= 2,5 < 3 %

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

Sodium hypochlorite, solution

CAS No. 7681-52-9

EINECS no. 231-668-3

Registration no. 01-2119488154-34-XXXX

Concentration >= 1 < 2,5 %

Skin Corr. 1B H314

Eye Dam. 1 H318

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

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

Aquatic Acute 1 H400 M = 10

Aquatic Chronic 1 H410 M = 1

EUH031 >= 5 %

ATE oral 1.100 mg/kg

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

2-phosphonobutane-1,2,4-tricarboxylic acid

CAS No. 37971-36-1

EINECS no. 253-733-5

Registration no. 01-2119436643-39-XXXX

Concentration >= 1 < 10 %

Eye Irrit. 2 H319

Met. Corr. 1 H290

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.

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

* Orbin SEPT

Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

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 mixtureIn case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: Chlorine (Cl₂)**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. Avoid contact with skin, eyes and 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 ventilation of containers. Provide alkali-resistant floor.

Do not store together with: Acids, Reducing agents

Keep only in the original container in a cool, well ventilated place. Protect from heat and direct sunlight.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****sodium hydroxide**

List	EH40	
Type	WEL	
Short term exposure limit	2	mg/m ³

Potassium hydroxide

* Orbin SEPT

Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

List	EH40		
Type	WEL		
Short term exposure limit	2	mg/m ³	
Maximum limit value; Skin resorption / sensibilisation: Pregnancy group: Status: 2005			

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	>	0,4	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		
Colour	yellowish		
Odour	Chlorine		
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	appr.	12,1	

* Orbin SEPT

Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

Concentration/H ₂ O	1	%	
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. 1,15		kg/l
Temperature	20	°C	
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

Efflux time

Value appr. 15 s
Method DIN 53211 4 mm

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Reactions with water and acids.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

Thermal decomposition

Remarks Not relevant

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Chlorine

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE 7.561 mg/kg

* Orbin SEPT

Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

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		
Species	rat		
LD50	1064		mg/kg

Potassium hydroxide

Reference substance	potassium hydroxide ...%		
ATE	333		mg/kg

Sodium hypochlorite, solution**Acute dermal toxicity**

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

Acute dermal toxicity (Components)**Sodium hypochlorite, solution****Acute inhalational toxicity**

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

Acute inhalative toxicity (Components)**Sodium hypochlorite, solution****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

* Orbin SEPT

Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

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

Sodium hypochlorite, solution

Reference substance	sodium hypochlorite, solution... % Cl active			
Species	rainbow trout (<i>Oncorhynchus mykiss</i>)			
LC50	0,06			mg/l
Duration of exposure	96	h		
Reference substance	sodium hypochlorite, solution... % Cl active			
Species	Oncorhynchus kisutch			
LC50	0,032			mg/l
Duration of exposure	96	h		

Daphnia toxicity

sodium hydroxide

Reference substance	sodium hydroxide			
Species	Ceriodaphnia spec			
EC50	40,4			mg/l
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

Sodium hypochlorite, solution

Reference substance	sodium hypochlorite, solution... % Cl active			
Species	Daphnia magna			
EC50	0,141			mg/l
Duration of exposure	48	h		
Method	OECD 202			

Algae toxicity

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance	Amines, C12-C14-Alkyldimethyl-N-oxides			
IC50	0,143			mg/l

Sodium hypochlorite, solution

Reference substance	sodium hypochlorite, solution... % Cl active			
Species	Pseudokirchneriella subcapitata			
EC50	0,04			mg/l

Bacteria toxicity

Sodium hypochlorite, solution

Reference substance	sodium hypochlorite, solution... % Cl active			
Species	activated sludge			
EC50	> 3			mg/l
Duration of exposure	3	h		

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.

* Orbin SEPT

Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

Biodegradability**Amines, C12-C14-Alkyldimethyl-N-oxides**Reference substance
evaluationAmines, C12-C14-Alkyldimethyl-N-oxides
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 environment**

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

* Orbin SEPT





Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	3266	3266
14.2. UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, sodium hypochlorite, solution... % Cl active)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, sodium hypochlorite, solution... % Cl active)
14.3. Transport hazard class(es)	8	8
14.4. Packing group	II	II
Label		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Marine Pollutant		Marine Pollutant
Limited Quantity	1 I	1 I
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****Major-accident categories acc. 2012/18/EU *****

Category 41

Ingredients (Regulation (EC) No 648/2004)

* Orbin SEPT

Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

less than 5 %: ***

phosphates, non-ionic surfactants, chlorine-based bleaching agents, phosphonates

VOC

VOC (EU) 0 %

Other information ***

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of 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 Acute 1	H400	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.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic 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 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
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

*** Orbin SEPT**

Date revised: 04.04.2023

8720017221

Version: 4 / GB

Master No. MA-216

Print date: 07.05.2024

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

LLC: Lowest lethal concentration

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

IOELV: Indicative Occupational Exposure Limit Values

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.