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

1.1. Product identifier

Washo Active Oxygen

UFI: 5110-V00R-C006-TEJK

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

Use of the substance/mixture

Oxygen-based bleach (detergents and cleaning agents)

1.3. Details of the supplier providing the safety data sheet

Company name: Washo AG

Street: Marktgasse 8

Location: CH-6340 Baar

Phone: + 41 (0)41 511 76 41

Internet: www.washo.ch

1.4. Emergency number:

Tox Info Suisse, Freiestrasse 16, CH-8032 Zurich Emergency number: 145; from abroad: +41442515151; non-urgent cases: +41442516666, +41 (0)78 828 69 26 (during office hours Mon-Sun 08.00-20.00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard-determining components for labeling

sodium carbonate peroxyhydrate

Signal word: Danger

Pictograms:

hazard warnings

318 Causes serious eye damage.

safety instructions

101 If medical advice is needed, have product container or label at hand. Keep out of
102 the reach of children.
103 Read and follow all instructions carefully. Wear eye/face protection.
280
305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if possible. Continue rinsing.
310 Call a POISON CENTER/doctor immediately.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant components

CAS No.	substance name			Portion
	EC No.	index number	REACH No.	
	Classification (Regulation (EC) No 1272/2008)			
497-19-8	sodium carbonate			50 - < 55 %
	207-838-8	011-005-00-2	01-2119485498-19	
	Eye Irrit. 2; H319			
15630-89-4	sodium carbonate peroxyhydrate			35 - < 40 %
	239-707-6		01-2119457268-30	
	Ox. Sol. 3, Acute Tox. 4, Eye Dam. 1; H272 H302 H318			

Full text of H- and EUH-phrases: see section 16. **Specific concentration limits, M-factors and ATE**

CAS No.	EC No.	substance name	Portion
	Specific concentration limits, M-factors and ATE		
497-19-8	207-838-8	sodium carbonate	50 - < 55 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2800 mg/kg		
15630-89-4	239-707-6	sodium carbonate peroxyhydrate	35 - < 40 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1034 mg/kg Eye Dam. 1; H318: >= 25 - 100 Eye Irrit. 2; H319: >= 7.5 - < 25		

Labeling of ingredients according to ChemRRV

> = 30 % oxygen-based bleach, < 5 % non-ionic surfactants, enzymes.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt or if symptoms are present, seek medical advice. **After inhalation**

Provide fresh air. If respiratory symptoms occur: Call a doctor.

After skin contact

Wash with plenty of water. Remove contaminated clothing and wash before reuse. If skin reaction occurs, seek medical attention.

After eye contact

In case of eye contact, rinse eyes with water for a long time with the eyelids open, then consult an ophthalmologist immediately. Remove any contact lenses if possible. Continue rinsing.

After ingestion

If swallowed, rinse mouth with water (only if the victim is conscious). If vomiting occurs, be aware of the risk of aspiration. In all cases of doubt or if symptoms are present, seek medical advice.

4.2. Most important acute and delayed symptoms and effects

No information is available.

4.3. Indication of any immediate medical attention or special treatment needed

Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1. Extinguishing agents

Suitable extinguishing agents

Adapt fire-fighting measures to the surrounding area.

5.2. Special hazards arising from the substance or mixture

Non-flammable.
In case of fire may be liberated: pyrolysis products, toxic.
Hazardous decomposition products (oxygen based bleach): Oxygen.

5.3. Instructions for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

Additional information

Knock down gases/vapours/mists with water spray. Knock down dust with water spray. Collect contaminated fire extinguishing water separately. Do not allow to enter drains or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General information

Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing. **Personnel not trained for emergencies**

Remove all sources of ignition. Ensure adequate ventilation. Remove persons to safety. Wear personal protective equipment.

emergency services

Wear personal protective equipment (see section 8).

6.2. Environmental protection measures

Do not allow to enter drains or waterways.

6.3. Methods and materials for containment and cleaning

For restraint

Avoid dust formation. Eliminate leaks if possible without risk. **For cleaning**

Collect mechanically. Collect and store dust-free. Treat the collected material in accordance with the disposal section.

More information

Do not rub. Clean soiled objects and floors thoroughly, observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7 Personal protective equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Protective measures for safe handling

Instructions for safe handling

Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Information on fire and explosion protection

Usual measures for preventive fire protection. **Information on general hygiene measures in the workplace**

Remove contaminated clothing. Create and follow a skin protection plan! Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniffle at the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers

Keep container tightly closed. Keep out of the reach of children.

storage instructions

No information is available. **Further**

information on storage conditions

Protect from moisture. Protect from heat.

Storage class: 3 (Non-combustible solids)

7.3. Specific end uses

Oxygen-based bleach (detergents and cleaning agents)

SECTION 8: Exposure controls/personal protection

8.1. Parameters to be monitored

MAK values (Art.50 para.3 of the Ordinance on Accident Prevention (VUV, SR 832.30))

CAS No.	Material	ppm	mg/m³	F/ml	category	notation	Origin
9014-01-1	Subtilisins as crystalline active enzymes	-	0.00006		short-term limit ert	S	
13463-67-7	titanium dioxide (alveolar)	-	3		MAK value 8 h	SSC	

DNEL/DMEL values

CAS No.	Material			
DNEL type		route of exposure	Effect	Value
15630-89-4	sodium carbonate peroxyhydrate			
Employee DNEL, acute		dermal	local	12.8 mg/cm²
Employee DNEL, long-term		inhalation	local	5 mg/m³
Consumer DNEL, acute		dermal	local	6.4 mg/cm²
9014-01-1	subtilisin			
Employee DNEL, long-term		inhalation	systemic	0.000060 mg/m³
Employee DNEL, acute		dermal	local	0.2%
Employee DNEL, long-term		dermal	local	0.2%
Consumer DNEL, long-term		inhalation	local	0.000015 mg/m³
Consumer DNEL, long-term		inhalation	systemic	0.000015 mg/m³
Consumer DNEL, acute		dermal	local	0.2%
Consumer DNEL, long-term		dermal	local	0.2%

PNEC values

CAS No.	Material	
environmental compartment		Value
15630-89-4	sodium carbonate peroxyhydrate	
Freshwater		0.035 mg/l
9014-01-1	subtilisin	
Freshwater		0.0017 mg/l
freshwater (intermittent release)		0.0009 mg/l
seawater		0.00017 mg/l
microorganisms in sewage treatment plants		65 mg/l
Floor		0.569 mg/kg

Additional information on limit values

Measurement methods:
AIA: AIA Recommended Technical Method No.1
BG: Berufsgenossenschaft
DFG: German Research Foundation HSE:
Health and Safety Executive
IFA: Institute for Occupational Safety and Health of the German Social Accident Insurance
INRS: Institut National de Recherche et de Sécurité
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration

8.2. Limitation and monitoring of exposure


Suitable technical control devices

Ensure adequate ventilation and local extraction at critical points. **Individual protective measures, such as personal protective equipment**

eye/face protection

Use eye protection according to EN 166. **hand protection**

Wear suitable gloves tested to EN374.
When handling chemical substances, only chemical protection gloves with a CE mark including a four-digit test number may be worn. The design of chemical protection gloves must be selected for the specific workplace depending on the concentration and quantity of the hazardous substance. It is recommended that the chemical resistance of the protective gloves mentioned above for special applications be clarified with the glove manufacturer.

body armor

Wear suitable protective clothing when working.

respiratory protection

In case of inadequate ventilation, wear respiratory protection.
Respiratory protection is required in the following cases: Dust formation

Thermal hazards

No information is available.

Limiting and monitoring environmental exposure

Avoid release into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

state of aggregation:	solid (powder)
Color:	white
Odor:	characteristic
Odor threshold:	not determined

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	not determined
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Flash point:	not applicable
Ignition temperature:	not determined
Decomposition temperature:	not determined
PH value:	10.8 (1%)
Kinematic viscosity:	not applicable
Water solubility:	easily soluble

solubility in other solvents

not determined

distribution coefficient n-octanol/water:	not determined

vapor pressure:	not determined
Bulk density:	1100 kg/m³
Relative vapor density:	not determined
Particle properties:	not determined

9.2. Other information

information on physical hazard classes

explosion hazards

The product is not: Explosive.

Oxidizing properties

The product is not: flammable (oxidizing). (Method: Regulation (EC) No 440/2008, Annex A.17) **More information**

No information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

When handled and stored as directed, no dangerous reactions occur.

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxygen-based bleach: Possibility of hazardous reactions.

10.4. Conditions to avoid

Protect from moisture. Protect from heat.

10.5. Incompatible materials

No information is available.

10.6. Hazardous decomposition products

Hazardous decomposition products (oxygen-based bleach): Oxygen. In case of fire may be liberated: Pyrolysis products, toxic.

SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculates

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapor) > 20 mg/l; ATE (inhalative dust/mist) > 5 mg/l

CAS No.	Designation				
	route of exposure	dose	species	source	method
497-19-8	sodium carbonate				
	orally	LD50 2800 mg/kg	rat	Manufacturer	
	dermal	LD50 > 2000 mg/kg	rabbit	Manufacturer	EPA 16 CFR 1500.40
15630-89-4	sodium carbonate peroxyhydrate				
	orally	LD50 1034 mg/kg	rat	Manufacturer	
	dermal	LD50 > 2000 mg/kg	rabbit	Manufacturer	

irritant and corrosive effects

Serious eye damage/eye irritation: Causes serious eye damage.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

Based on the available data, the classification criteria are not met. **Carcinogenic, mutagenic and reproductive toxic effects**

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

Specific target organ toxicity after single exposure

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

Specific target organ toxicity with repeated exposure

Based on the available data, the classification criteria are not met. **risk of aspiration**

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

information on likely routes of exposure

Inhalation, ingestion, skin contact, eye contact.

11.2. Information on other hazards

endocrine disrupting properties

This product does not contain any substance that has endocrine disrupting properties in humans as no ingredient meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met. The product is not: ecotoxic.

CAS No.	Designation					
	Aquatic toxicity	dose	[h] | [d]	species	source	method
497-19-8	sodium carbonate					
	Acute fish toxicity	LC50 300 mg/l	96 hours	Lepomis macrochirus (sunfish)	Manufacturer	
	Acute crustacea toxicity	EC50 200-227 mg/l	48 hours	Daphnia sp.	Manufacturer	
15630-89-4	sodium carbonate peroxyhydrate					
	Acute fish toxicity	LC50 4.9 mg/l	96 hours	Pimephales promelas (fathead minnow)	Manufacturer	
	Acute crustacea toxicity	EC50 70.7 mg/l	48 hours	Daphnia pulex (water flea)	Manufacturer	
	fish toxicity	NOEC 7.4 mg/l	4 days	Pimephales promelas (fathead minnow)	Manufacturer	
	crustacea toxicity	NOEC 2 mg/l	2 days	Daphnia pulex (water flea)	Manufacturer	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of the PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

12.6. Endocrine disrupting properties

This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms as no ingredient meets the criteria.

12.7. Other adverse effects

No information is available.

Further information

Avoid release into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

recommendations for disposal

Do not allow to enter drains or waterways. Dispose of in accordance with official regulations. **Disposal of uncleaned packaging and recommended cleaning agents**

Wash with plenty of water. Completely emptied packaging can be recycled. Contaminated packaging should be treated in the same way as the substance.

SECTION 14: Transport information

land transport (ADR/RID)

14.1 UN number or ID number:	Not a dangerous good within the meaning of these transport regulations.
14.2. Proper UN shipping name:	Not a dangerous good within the meaning of these transport regulations.
14.3. Transport hazard classes:	Not a dangerous good within the meaning of these transport regulations. Not
14.4. Packing group:	a dangerous good within the meaning of these transport regulations.

inland waterway transport (ADN)

14.1 UN number or ID number:	Not a dangerous good within the meaning of these transport regulations.
14.2. Proper UN shipping name:	Not a dangerous good within the meaning of these transport regulations.
14.3. Transport hazard classes:	Not a dangerous good within the meaning of these transport regulations. Not
14.4. Packing group:	a dangerous good within the meaning of these transport regulations.

maritime transport (IMDG)

14.1 UN number or ID number:	Not a dangerous good within the meaning of these transport regulations.
14.2. Proper UN shipping name:	Not a dangerous good within the meaning of these transport regulations.
14.3. Transport hazard classes:	Not a dangerous good within the meaning of these transport regulations. Not
14.4. Packing group:	a dangerous good within the meaning of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.1 UN number or ID number:	Not a dangerous good within the meaning of these transport regulations.
14.2. Proper UN shipping name:	Not a dangerous good within the meaning of these transport regulations.
14.3. Transport hazard classes:	Not a dangerous good within the meaning of these transport regulations. Not
14.4. Packing group:	a dangerous good within the meaning of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for the user

Hazardous decomposition products (oxygen based bleach): Oxygen.

14.7. Bulk cargo transport by sea according to IMO instruments

not applicable

SECTION 15: Legal provisions

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

EU regulations

Restrictions on use (REACH, Annex XVII):

entry 75

Directive 2010/75/EU on industrial emissions:	< 0.1%
Information on the SEVESO III Directive 2012/18/EU:	Not subject to the SEVESO III Directive

Additional information

Regulation (EC) No 648/2004 on detergents [Detergents Regulation]. **National regulations**

Employment restriction:	Observe employment restrictions according to the Youth Employment Protection Ordinance, ArGV 5 (SR 822.115). Young people in basic vocational training may only work with this product if this is provided for in the respective education ordinance in order to achieve their training goals, the requirements of the education plan are met and the applicable age restrictions are observed. Young people who are not completing basic vocational training may not work with this product. Employees of both sexes up to the age of 18 are considered young people.
Air Pollution Control Ordinance I:	41: Total dust with mass flow >= 0.20 kg/h: Max. conc. 20 mg/m³ < 99
Portion:	%
Air Pollution Control Ordinance II:	71 Class 3: Organic gaseous, vaporous or particulate substances with mass flow >= 3.0 kg/h: Max. conc. 150 mg/m³
Portion:	< 1.1%
VOC content (VOCV):	< 0.1%

Additional information

National legal regulations must also be observed!

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture have not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

Ox. Sol: Oxidizing solids Acute
Tox: Acute toxicity Skin Irrit:
Skin irritation
Eye Dam: Serious eye damage Eye
Irrit: Eye irritation
Resp. Sens: Respiratory sensitization Carc:
Carcinogenicity
STOT SE: Specific target organ toxicity (single exposure) Aquatic
Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard

CLP: Classification, Labeling and Packaging
REACh: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonized System of Classification, Labeling and Packaging of Chemicals UN:
United Nations
EC/EEC: European Community/European Economic Community

EU: European Union
CAS: Chemical Abstracts Service
M-Factor: Multiplication Factor B:
Biological Monitoring
C1A: known carcinogenic substance
C1#A: known carcinogen with threshold value C1B: probably carcinogenic substance
C1#B: probably carcinogenic substance with threshold value
C2: possibly carcinogenic substance
H: Skin absorption
M1B: probably germ cell mutagenic substance M2:
possibly germ cell mutagenic substance OL:
interaction of noise and chemical substances P:
provisional determination
R1A: known reproductive toxicant R1B: probable reproductive toxicant R2: probable reproductive toxicant
S: Sensitization
SSB: Damage to the fetus cannot be excluded if the MAK value is observed SSC: no damage to the fetus if the MAK value is observed
A: Alveolar air
B: Thoroughbred
E: erythrocytes
P/S: Plasma/Serum
U: Urin
a: no restriction
b: end of exposure or end of shift
c: in case of long-term exposure: after several previous shifts d:
before the following shift
DNEL: Derived No Effect Level DMEL:
Derived Minimal Effect Level PNEC:
Predicted No Effect Concentration ATE:
Acute Toxicity Estimate
LC50: Lethal Concentration, 50%
LD50: Lethal Dose, 50%
LL50: Lethal Loading, 50% EL50:
Effect Loading, 50% EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration BCF: Bio-Concentration Factor
PBT: Persistent, Bioaccumulative, Toxic vPvB:
very Persistent, very Bioaccumulative
ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID:
Regulations concerning the International carriage of Dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord European relative to transport international des marchandises Dangereuses par voies de Navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
TI: Technical Instructions
DGR: Dangerous Goods Regulations
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
IE: Industrial Emissions
SVHC: Substance of Very High Concern

Classification of mixtures and evaluation method used according to Regulation (EC) No 1272/2008 [CLP]

classification	classification procedure
Eye Dam. 1; H318	calculation method

Text of H- and EUH-phrases (number and full text)

H272 May intensify fire; Oxidizing agent.
H302 Harmful if swallowed. Causes serious eye
H318 damage. Causes serious eye irritation.
H319

More information

The information is based on our current knowledge, but does not represent a guarantee of product properties and does not establish a contractual legal relationship. The recipient of our products is responsible for observing existing laws and regulations.

(The data of the relevant components were taken from the latest safety data sheet of the supplier taken.)