1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Oxydens

CAS number: -
EC number (EINECS/ELINCS): -
EC index number: -
REACH registration number: -

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

Identified uses of the substance or mixture: Cleaning tabletts for denta splints
Not recommended uses of the substance or mixture: Other

1.3 Details of the supplier of the safety data sheet

Manufacturer
ERKODENT Erich Kopp GmbH
Siemensstrasse 3
D 72285 Pfalzgrafenweiler

Telephone: 07445 8501 0
Fax: 07445 2092

Supplier
ERKODENT Erich Kopp GmbH
Siemensstrasse 3
D 72285 Pfalzgrafenweiler

Telephone: 07445 8501 0
Fax: 07445 2092

Information contact
ERKODENT Erich Kopp GmbH

Information Telephone: 07445 8501 21
Information fax:
E-mail (competent person): w.heuchert@erkodent.com
Website: www.erkodent.com

National contact
ERKODENT Erich Kopp GmbH

Information Telephone: 07445 8501 0
Information fax:
E-mail (competent person): info@erkodent.com
Website:

1.4 Emergency telephone number

ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone: 07445 8501 0

1.5 Dept. responsible for information

Entwicklung +49 (0) 7445 8501-21

2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008:
Skin Corr. 1B; H314 , Acute Tox. 4; H302

Directive 67/548/EEC:
Xn; R22 , C; R34

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:

GHS07

Signal word: Danger

H phrases:
302 Harmful if swallowed.
314 Causes severe skin burns and eye damage.

P phrases:
101 If medical advice is needed, have product container or label at hand.
102 Keep out of reach of children.
280 Wear protective gloves/protective clothing/eye protection/face protection.
301+330+331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
310 Immediately call a POISON CENTER or doctor/physician.
405 Store locked up.
501 Dispose of contents/container to .?.

2.2.2 Labelling according to Directive 67/548/EEC

Hazard symbols:

C Corrosive.
Xn Harmful.

R phrases:
22 Harmful if swallowed.
34 Causes burns.

S phrases: -

2.3 Other hazards

none

3. Composition/information on ingredients

3.1 Chemical characterization of the substance or mixture

Preparation related information

3.2 Composition of the substance or mixture

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC:
Citric Acid	201-069-1	77-92-9			15 %	STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318	Xi; R37/38 Xi; R41
Disodium carbonate	207-838-8	497-19-8	011-005-00-2		10 %	Eye Irrit. 2; H319	Xi; R36
Potassium Caroate		70693-62-8			40 %	Acute Tox. 4; H302 Skin Corr. 1B; H314	Xn; R22 -; R33

Ingredients with EC exposure limits

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC:

(The wording of the listed risk phrases is given in Chapter 16)

3.3 Additional information

none

4. First aid measures

4.1 Description of first aid measures

General information: Remove contaminated clothing immediatley and dispose off safely. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure. Remove contaminated clothing immediatley and dispose off safely.

Following inhalation: Provide fresh air. If victim is at risk of losing consciousness, position and transport on their side.

After skin contact: After contact with skin, wash immediately with plenty of water and soap. Seek medical attention if problems persist. In case of skin irritation, consult a physician.

Following eye contact: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting.

Self-protection: First aid assistant: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Nature of Hazard: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Emergency aid: No information available.

Treatment: Treat symptomatically.

5. Fire fighting measures

5.1 General information

The product itself is not combustible.

5.2 Extinguishing media

Suitable: Extinguishing materials should be selected according to the surrounding area.
Unsuitable: Extinguishing materials should be selected according to the surrounding area.

5.3 Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO2). Carbon monoxide. Sulphur dioxide (SO2).

5.4 Advice for fire fighters

Special protective equipment for fire-fighters
In case of fire: Wear self-contained breathing apparatus. Protective clothing.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protection equipment. Remove all sources of ignition. Avoid contact with skin, eyes and clothes. Avoid generation of dust.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil.

6.3 Methods and materials for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4 References to other sections

See protective measures under point 7 and 8.

7. Handling and storage

7.1 Precautions for safe handling

Information for safe handling
Keep container tightly closed. Avoid generation of dust.

Technical measures
Always close containers tightly after the removal of product. Keep container tightly closed in a cool, well-ventilated place.

Precautions against fire and explosion
Keep away from sources of ignition - No smoking. Keep away from heat.

Additional information
none

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Handle and open container with care. Store only in original container. Keep/Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Protect from sunlight.

Packaging materials
Keep/Store only in original container.

Requirements for storerooms and containers

Keep in a cool, well-ventilated place. Put lids on containers immediately after use.

Information about storing together in storage facility
Keep away from food, drink and animal feedingstuffs. Reducing agents. Do not mix with acids. Reducing agents. Alkalis (alkalis).

Further information concerning storage conditions
Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep away from heat.

Storage class: 8 B Non-combustible corrosive substances.

7.3 Specific end use(s)
Observe instructions for use.

8. Exposure controls / personal protection

8.1 Control parameters

8.1.1 Limits for occupational exposure
Exposure limit values

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:
Potassium Caroate	70693-62-8		3 mg/m3		TWA (8h) / STEL (15 Min.)

EC exposure limit values

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:

8.1.2 DNEL and PNEC values
DNEL-values

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer
Disodium carbonate	497-19-8	Ingestion short term (acute)			
		Ingestion Long Term (repeated)			
		Skin contact short term (acute)			
		Skin contact Long Term (repeated)			
		Inhalation short term (acute)			
		Inhalation Long Term (repeated)		10 mg/m3	

PNEC-values

Substance:	CAS-No.:	PNEC	Worker, industry	Worker, professional	consumer

8.1.3 Control-Banding
Control-Banding
none

8.1.4 Additional information
Air limit values: (Dust gerneral) 10 mg/m3; E: inhalable fraction of dust
Air limit values: (Dust gerneral) 1,25 mg/m3; A: respirable fraction o dust

8.2 Exposure controls

Occupational exposure controls
none

Chemical handling
Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Take off immediately all contaminated clothing.

Personal protection equipment
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection
With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

Hand protection
Suitable gloves type: NBR (Nitrile rubber). NR (Natural rubber (caoutchouc), Natural latex). Butyl rubber. FKM (fluoro rubber). PVC (Polyvinyl chloride) Breakthrough times and swelling properties of the material must be taken into consideration.

Eye protection
Tightly sealed safety glasses.

Skin protection
Protective clothing Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Environmental exposure controls
refer to chapter 7. No further action is necessary.

Consumer exposure controls
refer to chapter 7. No further action is necessary.

8.3 Exposure scenario

none

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

State of matter:	solid
Colour:	pigmented white blue
Odour:	characteristic
Odour threshold:	not determined

Safety relevant basis data

	Parameter	Value	Unit	Remark
Density:				not determined
Package density:				not determined
pH:		5,5-9,0		
Melting point / range:				not determined
Boiling temperature / range:				not determined
Flash point:				not determined
Flammability:				not applicable
Lower flammability limit:				not determined
Upper flammability limit:				not determined

Explosion hazard:		not determined
Lower explosion limit:		not determined
Upper explosion limit:		not determined
Ignition temperature:		none Risk of selfignition.
Decomposition temperature:		not determined
Oxidizing characteristics:		not determined
Vapour pressure:		not determined
Relative vapour density:		not determined
Speed of vaporization/evaporation rate:		not determined
Solubility in water:		easily soluble.
Fat solubility:		not determined
Solubility in	:	not determined
log P O/W (n-octanol / water):		not determined
Viscosity:		not determined
Solvent separation test:		not determined
Solvent content:	0 %	

9.2 Other information
No information available.

10. Stability and reactivity

10.1 Reactivity
No risks worthy of mention. No data available

10.2 Chemical stability
none slow decomposition spontaneous decomposition

10.3 Possibility of hazardous reactions
Reducing agents.

10.4 Conditions to avoid
Keep away from heat.

10.5 Incompatible materials
Reducing agents. Heavy metals. Etchant and acids Alkalis (alkalis).

10.6 Hazardous decomposition products
none Hazardous decomposition products

10.7 Additional information
none

11. Toxicological information

11.1 Information on toxicological effects
Data apply to the principal component. Harmful by inhalation and if swallowed.
ATEmix calculated: ATE (oral) 1213,6 mg/kg

Acute toxicity

Substance:	CAS-No.:	Toxicological information

Citric Acid	77-92-9	Oral: LD50 >5000 mg/kg Mouse Dermal: LD50 >2000 mg/kg Rabbit
Disodium carbonate	497-19-8	Oral: LD50 2800 mg/kg Rat Dermal: LD50 >2000 mg/kg Rabbit
Potassium Caroate	70693-62-8	Oral: LD50 500 mg/kg Rat Dermal: LD50 >2000 mg/kg Rabbit Inhalative (4h) aerosol: LC50 >5mg/l Rat

Specific symptoms in laboratory animals
Toxicological data are not available.

11.2 Irritation and etching

Irritant effect on the skin
Corrosive
Irritant effect on the eye
highly caustic.
Irritant effect on the respiratory tract
Toxicological data are not available.
Etching
corrosive.

11.3 Sensitization

No symptoms known up to now.

11.4 Repeated dose toxicity

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2. according to 67/548/EEC.
Potassium Caroate:
Subchronic oral toxicity (90d Rat). NOAEL: 200 mg/kg literature infomation ECHA Dossier
Subacute inhalative toxicity (14d Rat). NOAEC: 0,0014 mg/l literature infomation ECHA Dossier

11.5 CMR effects

Carcinogenicity
The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2. according to 67/548/EEC.
Mutagenicity
Potassium Caroate:
In-vitro mutagenicity:
OECD Guidline 471 (Bacterial Reverse Mutation Assy) = negative. Literature information: ECHA Dossier
OECD Guidline 473 (In vitro mammalian Cell Gene Mutatation Test) = positive. Literature information: ECHA Dossier
OECD Guidline 476 (In vitro mammalian Cell Gene Mutatation Test) = positive. Literature information: ECHA Dossier
In vivo mutagenicity:
OECD Guidline 474 (Mammalian Erythrocyte Micronucleus Test) = negative. Literature information: ECHA Dossier
Developmental toxicity/teratogenicity:
NOAEL = 250 mg/kg (bw) / day Literature information: ECHA Dossier
Sodium carbonate:
Developmental toxicity/teratogenicity:
NOAEL = 245 mg/kg (bw) / day Literature information: ECHA Dossier
Citric acid:
In-vitro mutagenicity:
OECD Guidline 471 (Bacterial Reverse Mutation Assy) = negative. Literature information: ECHA Dossier
OECD Guidline 473 (In vitro mammalian Cell Gene Mutatation Test) = positive. (without metabolic activation) Literature information: ECHA Dossier
In vivo mutagenicity:
OECD Guidline 475 (Mammalian Bone Marrow Chromosome Aberration Test) = negative. Literature

information: ECHA Dossier

Reproductive toxicity

No information available.

11.6 General remarks

No information available.

Practical experience

No information available.

Other observations

No information available.

Additional information

No information available.

12. Ecological information

12.1 Toxicity

The information about ecology refers to the main components.

Eco toxicity

Substance:	CAS-No.:	Ecotoxicity
Citric Acid	77-92-9	LC50 440-760 mg/l 96h Leuciccus idus ECHA Dossier ErC50 640 mg/l 96h Scenedesmus quadricauda ECHA Dossier EC50 ca. 120mg/l 48h Daphnia magna
Disodium carbonate	497-19-8	LC50 300 mg/l 96h Lepomis macrochirus ECHA Dossier EC50 200 - 227 mg/l 48 h Ceriodaphnia sp. ECHA Dossier
Potassium Caroate	70693-62-8	LC50 53 mg/l 96 h Oncorhynchus mykiss ECHA Dossier ErC50 1 mg/l 72 h Pseudokirchnerella subcapitata ECHA Dossier EC50 3,5 mg/l 48 h Daphnia Magna ECHA Dossier

12.2 Persistence and degradability

Readily biodegradable (according to OECD criteria).Citric Acid 97% 28d

12.3 Bio accumulative potential

There are no data available on the mixture itself.

12.4 Mobility in soil

There are no data available on the mixture itself.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

There are no data available on the mixture itself.

12.7 Further ecological information

Do not empty into drains or the aquatic environment.

12.8 Further details

There are no data available on the mixture itself.

13. Disposal considerations

13.1 Waste treatment methods

Appropriate disposal/Product

Waste disposal according to official state regulations. Carry out under observation of official regulations covering a chemical/physical treatment plant. Carry out a burning of harzardous waste according to official regulations. Consult the local waste disposal expert about waste disposal.

Appropriate disposal/ packaging

Waste disposal according to official state regulations.

Control report for waste code/ waste marking according to EAKV

Waste key product:	20 01 29 - Reinigungsmittel, die gefährliche Stoffe enthalten
Waste key packaging:	15 01 10 - Verpackungen, die Rückstände gefährlicher Stoffe enthalten oder durch gefährliche Stoffe verunreinigt sind

Remark

Waste disposal according to official state regulations.

14. Transport information

14.1 Overland transport (ADR/RID)

Proper Shipping name

UN No.:
Label: **Packing Group:** **Classification code:**
Remark: Not a hazardous material with respect to these transportation regulations.

14.2 Transport by sea (IMDG)

Proper Shipping name

UN-No.:
Label: **Packing Group:**
EmS-No: **MFAG:** **Marine pollutant:** Nein
Special Provisions:
Remark: Not a hazardous material with respect to these transportation regulations.

14.3 Air transport (ICAO-TI / IATA-DGR)

Proper Shipping name

UN/ID-No.:
Label: **Packing Group:**
Remark: Not a hazardous material with respect to these transportation regulations.

14.4 Mail

Not a hazardous material with respect to these transportation regulations.

15. Regulatory information

15.1 Labelling

Hazardous component(s) for labelling

-

Special labelling of particular preparations
Classification according to Directive 67/548/EEC or 1999/45/EC

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

EU-Regulations

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)
No information available.

Regulation (EC) No 2037/2000 on substances that deplete the ozone layer
No information available.

Regulation (EC) No 850/2004 on persistent organic pollutants
No information available.

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals
No information available.

Regulation (EC) No 648/2004 (Detergents regulation)
No information available.

Restrictions under Title VIII of Regulation (EC) No 1907/2006
No information available.

National regulations
Moreover, national legislation has to be observed!

Informations on working limitations
No information available.

Major Accidents Ordinance
No information available.

Storage class according to VCI

Water Hazard Class according to VwVwS
1 weak water pollutant (WGK 1)

Technical Instructions on Air Quality Control (TA-Luft)
No information available.

Further regulations, limitations and legal requirements
No information available.

15.3 Chemical safety assessment

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

16. Other information

16.1 Wording of the H and R-phrases under paragraph 3

Regulation (EC) No 1272/2008
302 Harmful if swallowed.
314 Causes severe skin burns and eye damage.

Directive 67/548/EEC
22 Harmful if swallowed.
34 Causes burns.

16.2 Training instructions
none/none

16.3 Recommended restrictions of use
none

16.4 Further remarks
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

16.5 Documentation of changes
none

16.6 Data sources
Data arise from reference works and literature.

16.7 Key and definition
Wording of the r-phrases under paragraph 3:

17. Appendix

17.1 Exposure scenario
-