

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

1.1. Product identifier

Oxydens

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CAS No.: --
EG No.: --
INDEX No.: --
REACH No.: --

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

Relevant identified uses: Cleansing tablets for dental splints
Uses advised against: Other

1.3. Details of the supplier of the safety data sheet

Manufacturer

ERKODENT Erich Kopp GmbH
Siemensstrasse 3
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D 72285 Pfalzgrafenweiler

Telephone: +49 7445 8501 0
Telefax: +49 7445 2092

Supplier (manufacturer/importer/only representative/downstream user/distributor)

ERKODENT Erich Kopp GmbH
Siemensstrasse 3
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D 72285 Pfalzgrafenweiler

Telephone: +49 7445 8501 0
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Information contact

ERKODENT Erich Kopp GmbH

Information telephone: +49 7445 8501 21
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E-mail (competent person): w.heuchert@erkodent.com
Website: www.erkodent.com

1.4. Emergency telephone number

ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone: +49 7445 8501 0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



Signal word:

Hazard statements:

Precautionary statements:

GHS05, GHS07

Danger

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P301+330+331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 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/doctor/.?.

P405 Store locked up.

P501 Dispose of contents/container to .?.

Hazardous component(s) for labelling

Potassium Caroate

Special labelling of particular preparations:

none

2.3. Other hazards

none

SECTION 3: Composition / information on ingredients

3.1. Substances

Mixtures

3.2. Mixtures

>= % oxygen-based bleaching agents < % anionic surfactants perfumes

Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
Potassium Caroate	274-778-7	70693-62-8			40 -< 45%	Acute Tox. 4, H302; Skin Corr. 1/1A/1B/1C, H314
citric acid	201-069-1	77-92-9			15 -< 20%	Eye Irrit. 2, H319
sodium carbonates	207-838-8	497-19-8	011-005-00-2		10 -< 15%	Eye Irrit. 2, H319

(Full text of H- and EUH-phrases: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation: Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

- Following 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.
- After 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.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Sulphur dioxide (SO₂).

5.3. Advice for firefighters

General information

The product itself does not burn.

Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Avoid generation of dust.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Wear suitable protective clothing. Conditions to avoid Generation/formation of dust Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautions against fire and explosion

Keep away from sources of ignition - No smoking. Keep away from heat.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Hints on joint storage

Keep away from food, drink and animal feedingstuffs. Reducing agent. Do not mix with acids. Reducing agent. Alkalis (alkalis).

Storage class: 8 B

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit value

Substance:	CAS-No.:		Source :	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m ³]	Limitation of exposure peaks:	Remark:
Potassium Caroate	70693-62-8	EN	TRGS 900		3		

Substance with a common (EC) occupational exposure limit value

Substance:	CAS-No.:		Source :	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m ³]	Limitation of exposure peaks:	Remark:

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
sodium carbonates	497-19-8	worker inhalative long-term, systemic 10 mg/m ³

PNEC Value

Substance:	CAS-No.:	PNEC

Remark:

critical value of air: 10 mg/ m3 E: inhalable dust fraction Air limit values: 1,25 mg/ m3 A: respirable dust fraction

8.2. Exposure controls

Occupational exposure controls

none

General protection and hygiene measures

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after 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/face protection

Tightly sealed safety glasses.

Body 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.

Exposure Scenario

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: solid
Colour: pigmented white blue
Odour: XXXX
Odour threshold: not determined

Safety relevant basis data

	Parameter	Value	Unit	Remark
pH:		5,5-9,0		
Melting point/freezing point:				not determined
Initial boiling point and boiling range:				not determined
Flash point:			°C	not determined
Evaporation rate:				not determined
Flammability (solid, gas):				not applicable
Explosive properties:				not determined
Lower flammability or explosive limits:				not determined
Upper flammability or explosive limits:				not determined
Vapour pressure:				not determined
Vapour density:				not determined
Relative density:				not determined
Density:				not determined
Solubility(ies):	:			not determined
Water solubility:				very soluble
Fat solubility:				not determined
Partition coefficient: n-octanol/water:		-1,57		citric acid

Auto-ignition temperature: none Risk of selfignition.
Decomposition temperature: not determined
Viscosity: not determined
Oxidising properties: not determined
Solvent content: 0 %

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No risks worthy of mention. No data available

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Reacts with : Acid

10.4. Conditions to avoid

heat. UV-radiation/sunlight. frost.

10.5. Incompatible materials

Acid Reducing agent

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂) Sulphur oxides Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Data apply to the main component. Harmful by inhalation and if swallowed.

M-factor: --
Acute toxicity (oral): ATEmix calculated: ATE (oral) 1213,6 mg/kg
Acute toxicity (dermal): --
Acute toxicity (inhalative): --

Acute toxicity

Substance:	CAS-No.:	Toxicological information
Potassium Caroate	70693-62-8	LD50 oral (rat) 500 mg/kg LD50 dermal (rabbit) > 2000 mg/kg LC50 inh. (rat) (4 h) > 5 mg/l
sodium carbonates	497-19-8	LD50 oral (rat) 2800 mg/kg LD50 dermal (rabbit) > 2000 mg/kg
citric acid	77-92-9	LD50 Oral > 5000 mg/kg LD50 dermal > 2000 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2, according to 67/548/EEC.

Germ cell mutagenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

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

STOT-repeated exposure

No information available.

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

Do not allow to enter into surface water or drains.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
Potassium Caroate	70693-62-8	LC50 fish (96 h) 53 mg/l EC50 Algae (72 h) 1 mg/l EC50 crustaceans (48 h) 3,5 mg/l
sodium carbonates	497-19-8	LC50 fish (96 h) 300 mg/l EC50 crustaceans (48 h) 227 mg/l
citric acid	77-92-9	LC50 fish (96 h) 760 mg/l EC50 algae (96 h) 640 mg/l EC50 crustaceans (48 h) ca. 120 mg/l

12.2. Persistence and degradability

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative 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

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Dispose of waste according to applicable legislation. Send to a physico-chemical treatment facility under observation of official regulations. Send to a hazardous waste incinerator facility under observation of official regulations. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

List of proposed waste codes/waste designations in accordance with EWC

Send to a hazardous waste incinerator facility under observation of official regulations.

Waste code product: --

Waste code packaging: --

SECTION 14: Transport information

14.1. UN number

UN No.: 1759

14.2. UN proper shipping name

ADR / RID

ÄTZENDER FESTER STOFF, N.A.G.

Kaliummonopersulfat

IMDG / ICAO-TI / IATA-DGR

Corrosive solid, n.o.s., molten

(Kaliummonopersulfat)

14.3. Transport hazard class(es)

Hazard label(s):: 8

Classification Code:

C10



14.4. Packing group

Packing Group: II

14.5. Environmental hazards

Labelling environmentally hazardous substances

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: yes / no

Marine Pollutant: yes / no

14.6. Special precautions for user

Land transport (ADR/RID)

Transport category: 2
(E)

Special provisions: 274

Tunnel restriction code: 2
(E)

Limited quantity (LQ): 1 kg

Sea transport (IMDG)

EmS-No: F-A, S-B

Special provisions: --

Limited quantity (LQ): 1 kg

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Remark: not applicable

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register:

No information available.

Regulation (EC) No 1005/2009 on substance that deplete the ozone layer:

No information available.

Regulation (EC) No 648/2004 on detergents:

No information available.

Regulation (EC) No 850/2004 on persistent organic pollutants:

No information available.

Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals:

No information available.

Restrictions according to Title VIII of Regulation (EC) No 1907/2006:

No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

No information available.

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out for this substance: --

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

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text)

Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

Training advice

none

Recommended restrictions of use

none

Further information

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.

Documentation of changes

none

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

AC: Artikelkategorie (Article Category)
ACGIH: Rat für Arbeitsschutz und Gefahrstoffe, Amerika (American Conference of Government Industrial Hygienists)
ADN: Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf Binnengewässern (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße (Accord européen relatif transport des marchandises dangereuses par route)
AGW: Arbeitsplatzgrenzwert
AOX: Adsorbierbare organisch gebundene Halogene (Adsorbable Organic halogen compounds)
Bw: Körpergewicht (Body weight)
CMR: Stoffe klassifiziert als Krebserzeugend, Mutagen oder Reproduktionstoxisch (Carcinogenic, Mutagenic, toxic for Reproduction)
CSR: Stoffsicherheitsbericht (Chemical Safety Report)
DIN: Deutsches Institut für Normung / Deutsche Industrienorm
DNEL: Grenzwert, unterhalb dessen der Stoff keine Wirkung ausübt (Derived No Effect Level)
DPD: Zubereitungsrichtlinie / Richtlinie 1999-45-EC (Dangerous Preparations Directive)
DSD: Stoffrichtlinie / Richtlinie 67-548-EC (Dangerous Substances Directive)
DU: Nachgeschalteter Anwender (Downstream User)
EC50: Wirksame Konzentration 50% (Effective Concentration 50%)
ECHA: Europäische Chemikalienagentur
EN: Europäische Norm
EWC/EWL: Europäischer Abfallartenkatalog (European Waste Catalogue)
IATA: Verband für den internationalen Lufttransport (International Air Transport Association)
IBC: Großpackmittel (Intermediate Bulk Container)
ICAO: Internationale Zivilluftfahrt-Organisation (International Civil Aviation Organization)
IMDG Code: Gefahrgutvorschriften für den internationalen Seetransport (International Maritime Dangerous Goods Code)
IMO: Internationale Seeschiffahrts-Organisation (International Maritime Organization)
ISO: Internationale Normungsorganisation (International Standards Organisation)
LC50: Lethale (Tödliche) Konzentration 50%
LD50: Lethale (Tödliche) Dosis 50%
LEV: Lokale Absaugung (Local exhaust ventilation)
MAK: Maximale Arbeitsplatzkonzentration – DFG
OEL: Arbeitsplatzgrenzwert (Occupational Exposure Limit)
PBT: persistent, bioakkumulierbar, giftig (persistent, bioaccumulative, toxic)
PNEC: Abgeschätzte Nicht-Effekt-Konzentration (Predicted No Effect Concentration)
PPE/PSA: Persönliche Schutzausrüstung (Personal Protective Equipment)
REACH: Registrierung, Bewertung und Zulassung von Chemikalien (Registration, Evaluation and Authorization of Chemicals)
RID: Gefahrgutvorschriften für den Transport mit der Eisenbahn (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Grenzwert für Kurzzeitexposition (Short-term Exposure Limit)
SVHC: Stoff sehr hoher Besorgnis (Substance of Very High Concern)
TLV: Arbeitsplatzgrenzwert (Threshold Limit Value)
VOC: Flüchtige organische Kohlenwasserstoffe (Volatile Organic Compounds)
vPvB: sehr persistent, sehr bioakkumulierbar (very persistent, very bioaccumulative)