

SAFETY DATA SHEET

according to Regulation 29 CFR 1910.1200

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Version: 8

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

1.1. Product identifier

Trade name/designation:

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

Use of the substance/mixture:

Washing and cleaning products

Relevant identified uses:

Life cycle stage [LCS]

PW: Widespread use by professional workers

1.3. Details of the supplier of the safety data sheet

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

etol Eberhard Tripp GmbH

Labor

Allerheiligenstr. 12

77728 Oppenau

Germany

Telephone: +49(0)7804/41-0

Telefax: +49(0)7804/41-168

E-mail: info@etol.de

Website: www.etol.de

E-mail (competent person): wolfgang.gauss@etol.de

1.4. Emergency telephone number

Wolfgang Gauss, +49(0)7804/41-167 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 29 CFR 1910.1200-:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation method.

2.2. Label elements

Labelling according to Regulation 29 CFR 1910.1200

Hazard pictograms:



GHS05
Corrosion



GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

disodium metasilicate; sodium percarbonate

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hazard statements for health hazards

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

Supplemental hazard information: -

Precautionary statements Prevention

P280	Wear protective gloves/protective clothing and eye/face protection.
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Precautionary statements Response

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.
P310	Immediately call a POISON CENTER/doctor/....

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation 29 CFR 1910.1200	Concentration
CAS No.: 6834-92-0 EC No.: 229-912-9 REACH No.: 01-2119449811-37	disodium metasilicate STOT SE 3 (H335), Skin Corr. 1B (H314) Danger	15 - 40 weight-%
CAS No.: 15630-89-4 REACH No.: 01-2119457268-30	sodium percarbonate Acute Tox. 4 (H302), Eye Dam. 1 (H318), Ox. Sol. 2 (H272) Danger Specific concentration limit (SCL) Eye Dam. 1; H318: 25% ≤ C < 100% Eye Irrit. 2; H319: 7.5% ≤ C < 25%	10 - 25 weight-%
CAS No.: 497-19-8 EC No.: 207-838-8 REACH No.: 01-2119485498-19	sodium carbonate Eye Irrit. 2 (H319) Warning	1 - 10 weight-%

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). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. Get medical advice/attention if you feel unwell. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Get immediate medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Rinse mouth immediately and drink plenty of water-. Do NOT induce vomiting. Get immediate medical advice/attention.

Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Irritation to respiratory tract Serious eye damage/eye irritation

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.

Water

Extinguishing powder

Carbon dioxide (CO₂)

Unsuitable extinguishing media:

Strong water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

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

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Collect spillage. Measures to prevent aerosol and dust generation Wet clean or vacuum up solids.

For cleaning up:

Water

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Do not breathe dust.

Measures to prevent aerosol and dust generation:

Dust should be exhausted directly at the point of origin. Additional measures for respiratory protection

High efficiency particulate air filter (HEPA filter)

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 8B - Non-combustible corrosive substances

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.661 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.661 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.375 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.375 mg/kg	① DNEL worker ② Acute - dermal, systemic effects
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.75 mg/kg	① DNEL worker ② Long-term - oral, systemic effects
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.75 mg/kg	① DNEL worker ② Acute - oral, systemic effects
disodium metasilicate CAS No.: 6834-92-0 EC No.: 229-912-9	6.22 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
disodium metasilicate CAS No.: 6834-92-0 EC No.: 229-912-9	1.49 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
sodium percarbonate CAS No.: 15630-89-4	5 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects

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Substance name	DNEL value	① DNEL type ② Exposure route
sodium carbonate CAS No.: 497-19-8 EC No.: 207-838-8	10 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects

Substance name	PNEC Value	① PNEC type
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.005 mg/l	① PNEC aquatic, freshwater
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.005 mg/l	① PNEC aquatic, marine water
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.19 mg/kg	① PNEC sediment, freshwater
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.05 mg/l	① PNEC aquatic, intermittent release
sodium tripolyphosphate CAS No.: 7758-29-4 EC No.: 231-838-7	0.14 mg/kg	① PNEC soil, freshwater
disodium metasilicate CAS No.: 6834-92-0 EC No.: 229-912-9	7.5 mg/l	① PNEC aquatic, freshwater
disodium metasilicate CAS No.: 6834-92-0 EC No.: 229-912-9	1 mg/l	① PNEC aquatic, marine water
disodium metasilicate CAS No.: 6834-92-0 EC No.: 229-912-9	1,000 mg/l	① PNEC sewage treatment plant
sodium percarbonate CAS No.: 15630-89-4	0.035 mg/l	① PNEC aquatic, freshwater
sodium percarbonate CAS No.: 15630-89-4	0.035 mg/l	① PNEC aquatic, marine water
sodium percarbonate CAS No.: 15630-89-4	16.24 mg/l	① PNEC sewage treatment plant
sodium percarbonate CAS No.: 15630-89-4	0.035 mg/l	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: NBR (Nitrile rubber) >0,2mm
Breakthrough time: 480min In the case of wanting to use the gloves again, clean them before taking off and air them well.

8.2.3. Environmental exposure controls

No data available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: white

Odour: odourless

Safety relevant basis data

parameter		at °C	Method	Remark
pH	14	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	≈ 0.96 g/cm ³	20 °C		
Relative density	<i>not determined</i>			
Bulk density	≈ 0.9 g/cm ³	20 °C		
Water solubility	completely miscible	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect from moisture.

10.5. Incompatible materials

Exothermic reaction with: Acid

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

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SECTION 11: Toxicological information

* 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substance name	Toxicological information
disodium metasilicate CAS No.: 6834-92-0 EC No.: 229-912-9	LD₅₀ oral: =1,153 mg/kg (Rat) LD₅₀ dermal: >5,000 mg/kg (Rat)
sodium percarbonate CAS No.: 15630-89-4	LD₅₀ oral: =1,034 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit)
sodium carbonate CAS No.: 497-19-8 EC No.: 207-838-8	LD₅₀ oral: =4,090 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes severe burns.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

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

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.

STOT-single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

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

Aspiration hazard:

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

Additional information:

No data available

11.2. Information on other hazards

No data available

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SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
disodium metasilicate CAS No.: 6834-92-0 EC No.: 229-912-9	LC₅₀ : =210 mg/l 4 d (fish-, Danio rerio (zebrafish-)) EC₅₀ : =1,700 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
sodium percarbonate CAS No.: 15630-89-4	LC₅₀ : =70.7 mg/l 4 d (fish-, Pimephales promelas (fathead minnow)) EC₅₀ : =4.9 mg/l 2 d (crustaceans, Daphnia pulex (water-flea)) NOEC : =7.4 mg/l 4 d (fish-)
sodium carbonate CAS No.: 497-19-8 EC No.: 207-838-8	EC₅₀ : >200 - <227 mg/l 2 d (crustaceans, Ceriodaphnia spec) LC₅₀ : =300 mg/l 4 d (fish-, Lepomis macrochirus (Bluegill))

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
sodium percarbonate CAS No.: 15630-89-4	not applicable	

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of 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

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

20 01 29 * Detergents containing hazardous substances

*: Evidence for disposal must be provided.

Waste code packaging:

15 01 10 * packaging containing residues of or contaminated by dangerous substances

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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14.1. UN number or ID number

UN 3253	UN 3253	UN 3253	UN 3253
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14.2. UN proper shipping name

DISODIUM TRIOXO-SILICATE	DISODIUM TRIOXO-SILICATE	DISODIUM TRIOXO-SILICATE	DISODIUM TRIOXO-SILICATE
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14.3. Transport hazard class(es)

 8	 8	 8	 8
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14.4. Packing group

III	III	III	III
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14.5. Environmental hazards

No	No	No	No
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14.6. Special precautions for user

Special provisions:	Special provisions:	Special provisions:	Special provisions:
Limited quantity (LQ): 5 Kg Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 80 Classification code-: C6 tunnel restriction code-: (E) Remark:	Limited quantity (LQ): 5 Kg Excepted Quantities (EQ): E1 Classification code-: C6 Remark:	Limited quantity (LQ): 5 Kg Excepted Quantities (EQ): E1 EmS-No.: F-A, S-B Remark:	Excepted Quantities (EQ): Remark:

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations -:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Volatile organic compounds (VOC) content in percent by weight: 0%

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

>30% phosphates

15-30% oxygen-based bleaching agents

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15.1.2. National regulations

[DE] National regulations

Störfallverordnung

for substances contained in the product:

This product is not assigned to a hazard category.

for substances possibly developing during an incident:

This product is not assigned to a hazard category.

Water hazard class

WGK:

1 - schwach wassergefährdend

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

16.1. Indication of changes

3.2.	Mixtures
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11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
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16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation 29 CFR 1910.1200

Classification according to Regulation 29 CFR 1910.1200-:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation method.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

16.6. Training advice

No data available

16.7. Additional 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.

* Data changed compared with the previous version