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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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Additional information:
Restricted to professional users.

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

Use of the substance/mixture:
Washing and cleaning products

* **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 (EC) No 1272/2008 [CLP]-:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Corrosive to metals *(Met. Corr. 1)*	H290: May be corrosive to metals.	
Skin corrosion/irritation *(Skin Corr. 1A)*	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
Respiratory or skin sensitisation *(Resp. Sens. 1)*	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

2.2. Label elements

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

Hazard pictograms:

GHS05
Corrosion

GHS08
Health hazard

Signal word: Danger

Hazard components for labelling:
sodium hydroxide; tosylchloramide sodium, trihydrate; sodium metasilicate, pentahydrate

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hazard statements for physical hazards	
H290	May be corrosive to metals.

hazard statements for health hazards	
H314	Causes severe skin burns and eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Supplemental Hazard information (EU)	
EUH031	Contact with acids liberates toxic gas.

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

Precautionary statements Response	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 (EC) No 1272/2008 [CLP]	Concen-tration
CAS No.: 1310-73-2 **EC No.:** 215-185-5 **INDEX No.:** 011-002-00-6 **REACH No.:** 01-2119457892-27-0035	**sodium hydroxide** Skin Corr. 1A **Danger** H314	25 – 50 Wt %
CAS No.: 7080-50-4 **REACH No.:** 01-2120772085-53	**tosylchloramide sodium, trihydrate** Acute Tox. 4, Resp. Sens. 1, Skin Corr. 1B **Danger** EUH031	5 – 15 Wt %
CAS No.: 10213-79-3 **REACH No.:** 01-2119449811-37	**sodium metasilicate, pentahydrate** Met. Corr. 1, STOT SE 3, Skin Corr. 1B **Danger** H290-H314-H335	1 – 5 Wt %

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 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. In case of respiratory tract irritation, consult a physician. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Get immediate medical advice/attention.

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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.

After 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 Allergic reactions Asthmatic complaints Respiratory complaints 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
Carbon dioxide (CO_2)
Extinguishing powder

Unsuitable extinguishing media:
Strong water jet

5.2. Special hazards arising from the substance or mixture
The product itself does not burn.

Hazardous combustion products:
In case of fire: Chlorine (Cl_2)

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.

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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.

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).

Measures to prevent aerosol and dust generation:
Dust should be exhausted directly at the point of origin.

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.

Storage class: 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

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	sodium hydroxide CAS No.: 1310-73-2	② 2 mg/m³

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 hydroxide CAS No.: 1310-73-2	1 mg/m³	① DNEL worker ② DNEL long-term inhalative (local)
sodium tripolyphosphate CAS No.: 7758-29-4	0.661 mg/m³	① DNEL worker ② DNEL acute inhalative (systemic)
sodium tripolyphosphate CAS No.: 7758-29-4	0.661 mg/m³	① DNEL worker ② DNEL long-term inhalative (systemic)

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Substance name	DNEL value	① DNEL type ② Exposure route
sodium tripolyphosphate CAS No.: 7758-29-4	0.375 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (systemic)
sodium tripolyphosphate CAS No.: 7758-29-4	0.375 mg/kg	① DNEL worker ② DNEL long-term dermal (systemic)
sodium tripolyphosphate CAS No.: 7758-29-4	0.75 mg/kg	① DNEL worker ② DNEL short-term oral (acute)
sodium tripolyphosphate CAS No.: 7758-29-4	0.75 mg/kg	① DNEL worker ② DNEL long-term oral (repeated)
sodium metasilicate, pentahydrate CAS No.: 10213-79-3	6.22 mg/m³	① DNEL worker ② DNEL long-term inhalative (systemic)
sodium metasilicate, pentahydrate CAS No.: 10213-79-3	1.49 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)

Substance name	PNEC Value	① PNEC type
sodium tripolyphosphate CAS No.: 7758-29-4	0.005 mg/l	① PNEC aquatic, freshwater
sodium tripolyphosphate CAS No.: 7758-29-4	0.005 mg/l	① PNEC aquatic, marine water
sodium tripolyphosphate CAS No.: 7758-29-4	0.05 mg/l	① PNEC aquatic, intermittent release
sodium tripolyphosphate CAS No.: 7758-29-4	0.19 mg/kg	① PNEC sediment, freshwater
sodium tripolyphosphate CAS No.: 7758-29-4	0.14 mg/kg	① PNEC soil, freshwater
sodium metasilicate, pentahydrate CAS No.: 10213-79-3	7.5 mg/l	① PNEC aquatic, freshwater
sodium metasilicate, pentahydrate CAS No.: 10213-79-3	1 mg/l	① PNEC aquatic, marine water
sodium metasilicate, pentahydrate CAS No.: 10213-79-3	1,000 mg/l	① PNEC sewage treatment plant (STP)

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 DIN EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: NBR (Nitrile rubber) >0,2mm Breakthrough time (maximum wearing 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

8.3. Additional information

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	*not determined*			
Freezing point	*not determined*			
Initial boiling point and boiling range	*not determined*			
Decomposition temperature (°C):	*not determined*			
Flash point	*not applicable*			
Evaporation rate	*not determined*			
Ignition temperature in °C	*not determined*			
Upper/lower flammability or explosive limits	*not determined*			
Vapour pressure	*not determined*			
Vapour density	*not determined*			
Relative density	≈ 1.6 g/cm³	20 °C		
Bulk density	*not determined*			
Water solubility	> 50 g/l	20 °C		
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	*not determined*			
Kinematic viscosity	*not determined*	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

* **10.1. Reactivity**

May be corrosive to metals. Contact with acids liberates toxic gas. 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**

Slowly corrodes aluminium and zink under hydrogen evolution.

* **10.4. Conditions to avoid**

Corrosive to metals.

* **10.5. Incompatible materials**

Exothermic reaction with: Acid
Light metals

10.6. Hazardous decomposition products

Chlorine

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
10213-79-3	sodium metasilicate, pentahydrate	**LD_{50} oral:** =1,153 mg/kg (Rat) **LD_{50} dermal:** >5,000 mg/kg (Rat)
7080-50-4	tosylchloramide sodium, trihydrate	**LD_{50} oral:** =1,000 mg/kg (Rat)

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:
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

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

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
10213-79-3	sodium metasilicate, pentahydrate	**LC_{50}:** =210 mg/l 4 d (Brachydanio rerio (zebra-fish-)) **EC_{50}:** =1,700 mg/l 2 d (Daphnia magna (Big water flea))
1310-73-2	sodium hydroxide	**LC_{50}:** >133 – <189 mg/l 2 d (Leuciscus idus (gol den orfe)) **EC_{50}:** >100 mg/l 2 d (Daphnia magna (Big water-flea))
7080-50-4	tosylchloramide sodium, trihydrate	**LC_{50}:** =31 mg/l 4 d (Poecilia reticulata (Guppy)) **EC_{50}:** =4.5 mg/l 2 d

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12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
7080-50-4	tosylchloramide sodium, trihydrate	Yes, rapidly	

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K_{OC}	Bioconcentration factor (BCF)
1310-73-2	sodium hydroxide	-3.88	
7080-50-4	tosylchloramide sodium, trihydrate	-1.3	

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. 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

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
UN 1823	UN 1823	UN 1823	UN 1823
14.2. UN proper shipping name			
SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID
14.3. Transport hazard class(es)			
8	8	8	8
14.4. Packing group			
II	II	II	II

Land transport (ADR/ RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special provisions: **Limited quantity (LQ):** **Hazard identification number (Kemler No.):** **Classification code-:** - **tunnel restriction code-:** (E) **Remark:**	**Special provisions:** **Limited quantity (LQ):** **Classification code-:** - **Remark:**	**Special provisions:** **Limited quantity (LQ):** **EmS-No.:** **Remark:**	**Special provisions:** **Limited quantity (LQ):** **Remark:**

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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 (EU):

Volatile organic compounds (VOC) content in percent by weight: 0%
Regulation (EC) No. 648/2004 (Detergents regulation)
>30% phosphates
5-15% chlorine-based bleaching agents
<5% phosphonates

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

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

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

1.1.	Product identifier
1.3.	Details of the supplier of the safety data sheet
10.1.	Reactivity
10.3.	Possibility of hazardous reactions
10.4.	Conditions to avoid
10.5.	Incompatible materials
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Corrosive to metals *(Met. Corr. 1)*	H290: May be corrosive to metals.	
Skin corrosion/irritation *(Skin Corr. 1A)*	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
Respiratory or skin sensitisation *(Resp. Sens. 1)*	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

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

Hazard statements	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

Supplemental Hazard information (EU)	
EUH031	Contact with acids liberates toxic gas.

16.6. Training advice

No data available

16.7. Additional information

No data available

* Data changed compared with the previous version