


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

- . **1.1 Product identifier**
- . **Trade name:** CHEM CLEANER
- . **Article number:** 103400
- . **Index number:**

 None of the ingredients is listed.
- . **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 No further relevant information available.
- . **Application of the substance / the mixture** Cleaning agent/ Cleaner
- . **Uses advised against** Do not use on aluminum and zinc.
- . **1.3 Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
 TETENAL 1847 GmbH
 Schützenwall 31-35
 D-22844 Norderstedt /Germany
 Tel.: +49 (0) 40 521 45-0; Fax: +49 (0)40-52145-296
 www.tetenal.com; E-mail: info@tetenal.com
- . **Further information obtainable from:** Department product safety. E-Mail: sida@tetenal.com
- . **1.4 Emergency telephone number:**
 Poison Information Centre Germany: +49 (0) 30 - 30686 700 (English and German 24 hours)

SECTION 2: Hazards identification

- . **2.1 Classification of the substance or mixture**
- . **Classification according to Regulation (EC) No 1272/2008**
 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Dam. 1 H318 Causes serious eye damage.
- . **2.2 Label elements**
- . **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.
- . **Hazard pictograms**

 GHS05
- . **Signal word** Danger
- . **Hazard-determining components of labelling:**
 Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid
- . **Hazard statements**
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
- . **Precautionary statements**
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves / eye protection / face protection.
 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.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
- . **2.3 Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.

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. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

. 3.2 Chemical characterisation: Mixtures

. **Description:** Mixture of substances listed below and with nonhazardous additions.

. **Dangerous components:**

| | | |
|----------------------------|--|---------|
| CAS: 111-76-2 | Dowanol EB | 10-<25% |
| EINECS: 203-905-0 | ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; | |
| Index number: 603-014-00-0 | Skin Irrit. 2, H315; Eye Irrit. 2, H319 | |
| Reg.nr.: 01-2119475108-36 | | |
| EC number: 932-051-8 | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid | 5-10% |
| Reg.nr.: 01-2119565112-48 | ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315 | |
| CAS: 7778-53-2 | Tripotassium orthophosphate | 1-5% |
| EINECS: 213-907-1 | ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | |
| CAS: 1310-58-3 | potassium hydroxide | <1% |
| EINECS: 215-181-3 | ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302 | |
| Index number: 019-002-00-8 | | |
| Reg.nr.: 01-2119487136-33 | | |

. **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

. 4.1 Description of first aid measures

. **General information:** Immediately remove any clothing/shoes soiled by the product.. **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.. **After skin contact:** Immediately wash with water and soap and rinse thoroughly.. **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.. **After swallowing:** Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

. 5.1 Extinguishing media

. **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

. 5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Sulphur dioxide (SO₂)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

. 5.3 Advice for firefighters

. **Protective equipment:** Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

. 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

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. 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

. 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

. 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

. 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

. Information about fire - and explosion protection: No special measures required.

. 7.2 Conditions for safe storage, including any incompatibilities
. Storage:
. Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

. Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

. Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

Recommended storage temperature: 5-30°C

. 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

. Additional information about design of technical facilities: No further data; see item 7.

. 8.1 Control parameters
. Ingredients with limit values that require monitoring at the workplace:
111-76-2 Dowanol EB (10-25%)

WEL Short-term value: 50 ppm

Long-term value: 25 ppm

Sk

1310-58-3 potassium hydroxide (<1%)
WEL Short-term value: 2 mg/m³
. DNELs
1310-58-3 potassium hydroxide
Inhalative Long-term - local - effects 1 mg/m³ (Worker (Arbeiter))Long-term - systemic effects 1 mg/m³ (general population)
. Additional information: The lists valid during the making were used as basis.

. 8.2 Exposure controls
. Personal protective equipment:
. General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

. Respiratory protection: Ensure adequate ventilation

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. Protection of hands:

Protective gloves

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

. Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

. Penetration time of glove material

| Glove material | breakthrough-time | layer thickness |
|-----------------|-------------------|-----------------|
| Butyl rubber: | ≥480 min | ≥0,4mm |
| Nitrile rubber: | ≥480 min | ≥0,38mm |
| Neoprene: | ≥240 min | ≥0,65mm |

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

. Eye protection:

Tightly sealed goggles

. Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties**. General Information****. Appearance:**

| | |
|---------------------------|-----------------|
| Form: | Fluid |
| Colour: | Light blue |
| . Odour: | Recognisable |
| . Odour threshold: | Not determined. |

| | |
|-----------------------------|-----|
| . pH-value at 20 °C: | ~13 |
|-----------------------------|-----|

. Change in condition

| | |
|---|---------------|
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | Undetermined. |

| | |
|-----------------------|-----------------|
| . Flash point: | Not applicable. |
|-----------------------|-----------------|

| | |
|-------------------------------------|-----------------|
| . Flammability (solid, gas): | Not applicable. |
|-------------------------------------|-----------------|

| | |
|-------------------------------------|-----------------|
| . Decomposition temperature: | Not determined. |
|-------------------------------------|-----------------|

| | |
|-------------------------------------|------------------------------|
| . Auto-ignition temperature: | Product is not selfigniting. |
|-------------------------------------|------------------------------|

| | |
|--------------------------------|---|
| . Explosive properties: | Product does not present an explosion hazard. |
|--------------------------------|---|

. Explosion limits:

| | |
|---------------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

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| | |
|---|--|
| . Vapour pressure at 20 °C: | 23 hPa |
| . Density at 20 °C: | ~1 g/cm ³ |
| . Relative density | Not determined. |
| . Vapour density | Not determined. |
| . Evaporation rate | Not determined. |
| . Solubility in / Miscibility with water: | Fully miscible. |
| . Partition coefficient: n-octanol/water: | Not determined. |
| . Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| . Solvent content: | |
| Organic solvents: | 13.6 % |
| Water: | 50-90 % |
| Solids content: | 0.0 % |
| . 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- . 10.1 Reactivity No further relevant information available.
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: Stable at environment temperature.
- . 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.
- . 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials: Under certain fire conditions, traces of other toxic gases cannot be excluded.
- . 10.6 Hazardous decomposition products:
 - Irritant gases/vapours
 - Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- . 11.1 Information on toxicological effects
- . Acute toxicity Based on available data, the classification criteria are not met.
- . LD/LC50 values relevant for classification:

 - 111-76-2 Dowanol EB**
 - Oral LD50 450 mg/kg (rat)
 - Dermal LD50 2,270 mg/kg (rabbit)
 - 7778-53-2 Tripotassium orthophosphate**
 - Oral LD50 4,500 mg/kg (rat)
 - Dermal LD50 >4,640 mg/kg (rabbit)
 - 1310-58-3 potassium hydroxide**
 - Oral LD50 333 mg/kg (rat)
- . Primary irritant effect:
- . Skin corrosion/irritation
 - Causes skin irritation.
- . Serious eye damage/irritation
 - Causes serious eye damage.
- . Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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. Acute effects (acute toxicity, irritation and corrosivity)

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

. CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
. 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.

SECTION 12: Ecological information

. 12.1 Toxicity
. Aquatic toxicity:
7778-53-2 Tripotassium orthophosphate

LC50 96 mg/l (fish)

1310-58-3 potassium hydroxide
LC50 96 mg/l (fish: *Gambusia affinis*)24 mg/l (fish: *Poecilia reticulata*)
. 12.2 Persistence and degradability The contained surfactants are biodegradable

. 12.3 Bioaccumulative potential No further relevant information available.

. 12.4 Mobility in soil No further relevant information available.

. Additional ecological information:
. General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

. 12.5 Results of PBT and vPvB assessment
. PBT: Not applicable.

. vPvB: Not applicable.

. 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

. 13.1 Waste treatment methods
. Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

. Uncleaned packaging:
. Recommendation: Disposal must be made according to official regulations.

. Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

. 14.1 UN-Number
. ADR, ADN, IMDG, IATA Void

. 14.2 UN proper shipping name
. ADR Void

. ADN, IMDG, IATA Void

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| | |
|--|-----------------|
| . 14.3 Transport hazard class(es) | |
| . ADR, ADN, IMDG, IATA | |
| . Class | Void |
| . 14.4 Packing group | |
| . ADR, IMDG, IATA | Void |
| . 14.5 Environmental hazards: | |
| . Marine pollutant: | No |
| . 14.6 Special precautions for user | Not applicable. |
| . 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| . UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . Labelling according to Regulation (EC) No 1272/2008** GHS label elements
- . REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- . National regulations:**
- . Regulation (EC) No 648/2004 on detergents / Labelling for contents**
- anionic surfactants ≥5 - <15%
- phosphates <5%
- . 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Relevant phrases

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.

. Contact: E: sida@tetenal.com

. Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 4: Acute toxicity – Category 4

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Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

. * **Data compared to the previous version altered.**

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