

Safety data sheet
according to 1907/2006/EC, Article 31

TETENAL

Printing date 25.05.2018

version no: 3

Revision: 28.10.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking**. 1.1 Product identifier****. Trade name: Superfix odourless****. Article number:** 103067**. 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 Fixing bath for photographic use**. 1.3 Details of the supplier of the safety data sheet****. Manufacturer/Supplier:**

TETENAL Europe GmbH
Schützenwall 31-35
D-22844 Norderstedt / Germany
Tel.: +49 40 521 45-0, Fax: +49 40 52145-296
www.tetenal.com; E-Mail: info@tetenal.com

. Further information obtainable from: Department environment and safety. E-Mail: info@tetenal.com**. 1.4 Emergency telephone number:**

Poison Information Centre in Germany: +49 (0) 30 - 30686 700 (English 24 hours)

SECTION 2: Hazards identification**. 2.1 Classification of the substance or mixture****. Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

. 2.2 Label elements**. Labelling according to Regulation (EC) No 1272/2008** Void**. Hazard pictograms** Void**. Signal word** Void**. Hazard statements** Void**. Additional information:**

Safety data sheet available on request.

. 2.3 Other hazards**. Results of PBT and vPvB assessment****. PBT:** Not applicable.**. 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: 7631-90-5	sodium bisulphite	1-5%
EINECS: 231-548-0	⚠ Acute Tox. 4, H302	
Index number: 016-064-00-8		
CAS: 1303-96-4	BORAX; Disodium tetraborate, decahydrate (waterfree CAS 1330-43-4)	1-5%
EINECS: 215-540-4	⚠ Repr. 1B, H360FD; ⚠ Eye Irrit. 2, H319	
Index number: 005-011-01-1		

. SVHC

1303-96-4 BORAX; Disodium tetraborate, decahydrate (waterfree CAS 1330-43-4)

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

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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:** Supply fresh air.
- . **After skin contact:** Immediately rinse with water.
- . **After eye contact:** Rinse opened eye for several (15 min) under running water.
- . **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor 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:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- . **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).
- . **6.4 Reference to other sections**
No dangerous substances are released.
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** No special measures required.
- . **Information about fire - and explosion protection:** Protect from heat.
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** No special requirements.
- . **Information about storage in one common storage facility:** Store away from foodstuffs.
- . **Further information about storage conditions:**
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.

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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:**

7631-90-5 sodium bisulphite (1-5%)

WEL (Great Britain) Long-term value: 5 mg/m³

REL (USA) Long-term value: 5 mg/m³

TLV (USA) Long-term value: 5 mg/m³

1303-96-4 BORAX; Disodium tetraborate, decahydrate (waterfree CAS 1330-43-4) (1-5%)

REL (USA) Long-term value: 5 mg/m³

TLV (USA) Short-term value: 6* mg/m³

Long-term value: 2* mg/m³

*as inhalable fraction

. **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.

Avoid contact with the eyes and skin.

. **Respiratory protection:** Ensure adequate ventilation

. **Protection of hands:**



Protective 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**

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

. **Eye protection:**



Tightly sealed goggles

Safety glasses

. **Body protection:** Protective work clothing

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SECTION 9: Physical and chemical properties**. 9.1 Information on basic physical and chemical properties****. General Information****. Appearance:**

Form: Fluid
Colour: Colourless

. Odour: Odourless**. Odour threshold:** Not determined.**. pH-value at 20 °C:** ~6.5**. Change in condition****Melting point/freezing point:** Undetermined.**Initial boiling point and boiling range:** Undetermined.**. Flash point:** 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.**. Vapour pressure:** Not determined.**. Density at 20 °C:** ~1.3 g/cm³**. 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:****Water:** >25 %**VOC (EC)** 0.15 %**. 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** No dangerous reactions known.**. 10.4 Conditions to avoid** No further relevant information available.**. 10.5 Incompatible materials:** No further relevant information available.**. 10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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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:**

7631-90-5 sodium bisulphite

Oral LD50 1540 mg/kg (rat)

1303-96-4 BORAX; Disodium tetraborate, decahydrate (waterfree CAS 1330-43-4)

Oral LD50 4500-6000 mg/kg (rat)

. **Primary irritant effect:**

. **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

. **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

. **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

. **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:**

1303-96-4 BORAX; Disodium tetraborate, decahydrate (waterfree CAS 1330-43-4)

EC50 48h: 1085-1400 mg/l (daphnia magna (Water flea))

96h: 158 mg/l (sce)

. **12.2 Persistence and degradability** No further relevant information available.

. **12.3 Bioaccumulative potential** No further relevant information available.

. **12.4 Mobility in soil** No further relevant information available.

. **Additional ecological information:**

. **General notes:**

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

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

. **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.

. **European waste catalogue**

09 01 04* fixer solutions

. **Uncleaned packaging:**

. **Recommendation:** Disposal must be made according to official regulations.

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. **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 . ADN, IMDG, IATA	Void Void
. 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**
. **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 65
- . **National regulations:**
- . **Other regulations, limitations and prohibitive regulations**
. **Substances of very high concern (SVHC) according to REACH, Article 57**
1303-96-4 BORAX; Disodium tetraborate, decahydrate (waterfree CAS 1330-43-4)
- . **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.
H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.
- . **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)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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

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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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

. * Data compared to the previous version altered.

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