

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

Printing date 19.11.2018

version no: 6

Revision: 19.11.2018


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

- 1.1 Product identifier**
- Trade name: **Superfix EC**
X-ray fixer for roller machines
- Article number: 103594
- 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 agent for X-ray films
- 1.3 Details of the supplier of the safety data sheet**
- Manufacturer/Supplier:**
TETENAL 1847 GmbH
Schützenwall 31-35
D-22844 Norderstedt / Germany
Phone: +49 (0) 40 521 45-0; Fax: +49 (0) 40-52145-296
www.tetenal.com E-Mail: info@tetenal.com
- TETENAL Ltd.,
2 Meridian West, Meridian Business Park, Leicester LE19 1WX
Phone: 0116 - 289 3644; E-Mail: uk@tetenal.com; www.tetenaluk.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**
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 | | |
- 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**
- . **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:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
- . **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).
Pick up mechanically.
- . **6.4 Reference to other sections** No dangerous substances are released.

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
- . **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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- . **Protection of hands:**
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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . **Eye protection:** Goggles recommended during refilling
- . **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 yellow |
| Odour: | Rotten |
| . pH-value at 20 °C: | ~6 |
| . Change in condition | |
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | >100 °C |
| . Flash point: | Not applicable. |
| . Auto-ignition temperature: | Product is not selfigniting. |

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. Explosive properties:	Product does not present an explosion hazard.
. Vapour pressure:	Not determined.
. Density at 20 °C:	~1.3 g/cm ³
. Solubility in / Miscibility with water:	Fully miscible.
. Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
. Solvent content:	
Water:	25-50 %
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** 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:** Irritant gases/vapours

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)
- . **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:** No further relevant information available.
- . **12.2 Persistence and degradability** No further relevant information available.

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- . **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 undiluted product or large quantities of it 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.
- . **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|--|-----------------|
| . 14.1 UN-Number | Void |
| . ADR, ADN, IMDG, IATA | Void |
| . 14.2 UN proper shipping name | Void |
| . ADR | Void |
| . ADN, IMDG, IATA | Void |
| . 14.3 Transport hazard class(es) | Void |
| . ADR, ADN, IMDG, IATA | Void |
| . Class | Void |
| . 14.4 Packing group | Void |
| . ADR, IMDG, IATA | Void |
| . 14.5 Environmental hazards: | No |
| . 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

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. **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.

. **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)

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

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

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

1.1 Product identifier

Trade name: Superfix EC
X-ray fixer

Article number: 103594 Part 2

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
Phone: +49 (0) 40 521 45-0; Fax: +49 (0) 40-52145-296
www.tetenal.com E-Mail: info@tetenal.com

TETENAL Ltd.,
2 Meridian West, Meridian Business Park, Leicester LE19 1WX
Phone: 0116 - 289 3644; E-Mail: uk@tetenal.com; www.tetenaluk.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

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

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:

aluminium sulphate

acetic acid

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P234 Keep only in original container.

P280 Wear protective gloves / eye protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

. 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: 64-19-7	acetic acid	10-<25%
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EINECS: 200-580-7	☞ Flam. Liq. 3, H226; ☞ Skin Corr. 1A, H314	
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Index number: 607-002-00-6

Reg.nr.: 01-2119475328-30

CAS: 10043-01-3	aluminium sulphate	10-<25%
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EINECS: 233-135-0	☞ Eye Dam. 1, H318	
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. 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:

Supply fresh air; consult doctor in case of complaints.

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. If symptoms persist, consult a doctor.

. 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

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.

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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).
 - Pick up mechanically.
- . **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.
 - Prevent formation of aerosols.
- . **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:**
 - Store only in the original receptacle.
 - do not use metal containers

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do not use metal containers

do not use metal containers

. 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:****64-19-7 acetic acid (10-<25%)**IOELV (EU) Short-term value: 50 mg/m³, 20 ppmLong-term value: 25 mg/m³, 10 ppmPEL (USA) Long-term value: 25 mg/m³, 10 ppmREL (USA) Short-term value: 37 mg/m³, 15 ppmLong-term value: 25 mg/m³, 10 ppmTLV (USA) Short-term value: 37 mg/m³, 15 ppmLong-term value: 25 mg/m³, 10 ppm**10043-01-3 aluminium sulphate (10-<25%)**WEL (Great Britain) Long-term value: 2 mg/m³REL (USA) Long-term value: 2 mg/m³

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TLV (USA) Long-term value: 1* mg/m³
as Al;*as respirable fraction

. DNELs**64-19-7 acetic acid**

Inhalative Akute /short-term exposure - local effects	25 mg/m ³ (Worker (Arbeiter))
Long-term - local - effects	25 mg/m ³ (Worker (Arbeiter))
Akute-lokale Effekte	25 mg/m ³ (general population- Verbraucher)
Long-term - local effects	25 mg/m ³ (general population- Verbraucher)

. PNECs**64-19-7 acetic acid**

Aquatic compartment - freshwater	3.058 mg/l (-)
Aquatic compartment - marine water	0.358 mg/l (-)
Aquatic compartment -water,intermittent releases	30.58 mg/l (-)
Aquatic compartment -sediment in freshwater	11.36 mg/kg sed dw (-)
Aquatic compartment -sediment in marine water	1.136 mg/kg sed dw (-)
Terrestrial compartment -soil	0.478 mg/kg dw (Soil)
Sewage treatment plant (Abwasserreinigungsanlagen)	85 mg/l (-)

. Additional information: The lists valid during the making were used as basis.**. 8.2 Exposure controls****. Personal protective equipment:****. General protective and hygienic measures:**

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**. 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	breakthroug-time	layer thickness
Butyl rubber:	≥480 min	≥0,4mm
Nitrile rubber:	≥480 min	≥0,38mm
Neoprene:	≥240 min	≥0,65mm

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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: Colourless

. Odour: Pungent

. Odour threshold: Not determined.

. pH-value at 20 °C: <2

. Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

. Flash point: Not applicable.

. 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: ~1.1 g/cm³

. Solubility in / Miscibility with water:

Fully miscible.

. 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: No decomposition if used according to specifications.

. 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: No further relevant information available.

. 10.6 Hazardous decomposition products: Irritant gases/vapours

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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:**
- . **64-19-7 acetic acid**
- Oral LD50 3310 mg/kg (rat)
- Dermal LD50 1130 mg/kg (rabbit)
- Inhalative LC50 1h: 5620 mg/l (mouse)
- . **10043-01-3 aluminium sulphate**
- Oral LD50 6207 mg/kg (rat)
- . **Primary irritant effect:**
- . **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)**
- . **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:**
- . **64-19-7 acetic acid**
- LC50 24h: >100 mg/l (daphnia magna (Water flea))
- 96h: >1000 mg/l (fish)
- 96h: 75 mg/l (Lepomis macrochirus (Sonnenbarsch))
- 24h: 106 mg/l (fish: Pimephales promelas)
- . **10043-01-3 aluminium sulphate**
- LC50 96h: 100 mg/l (fish)
- . **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.

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**Trade name: Superfix EC
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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.

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

SECTION 14: Transport information

. 14.1 UN-Number

. ADR, IMDG, IATA UN2790

. 14.2 UN proper shipping name

. ADR 2790 ACETIC ACID SOLUTION
. IMDG, IATA ACETIC ACID SOLUTION

. 14.3 Transport hazard class(es)

. ADR

. Class 8 (C3) Corrosive substances.

. Label 8

. IMDG, IATA

. Class 8 Corrosive substances.

. Label 8

. 14.4 Packing group

. ADR, IMDG, IATA III

. 14.5 Environmental hazards:

. Marine pollutant: No

. 14.6 Special precautions for user

. Danger code (Kemler): Warning: Corrosive substances.

. EMS Number: 80

. Segregation groups F-A,S-B

. Stowage Category Acids
A

. 14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

. Transport/Additional information:

. ADR

. Limited quantities (LQ) 5L

. Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

. Transport category 3

. Tunnel restriction code E

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

Printing date 19.11.2018

version no: 5

Revision: 19.11.2018

Trade name: Superfix EC
X-ray fixer

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. IMDG	
. Limited quantities (LQ)	5L
. Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
. UN "Model Regulation":	UN 2790 ACETIC ACID SOLUTION, 8, III

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: 3
- . **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

- H226 Flammable liquid and vapour.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.

. 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)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Met. Corr.1: Corrosive to metals – Category 1
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1

. * Data compared to the previous version altered.