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Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 04.08.2010

version no: 1

Revision: 08.07.2010

1 Identification of the substance/preparation and of the company/undertaking · Product details · Trade name: Superfix Enviro Safe 25 conc. 4x500ml · Article number: 104028 · Application of the substance / the preparation Fixing agent for X-ray films · Manufacturer/Supplier: TETENAL AG & CO. KG Schützenwall 31-35 D-22844 Norderstedt / Germany Tel.: +49 040 521 45-0 Fax: +49 040-52145-296 www.tetenal.com E-mail: info@tetenal.com TETENAL LTD., Unit 1, Foxholes Road Leicester LE3 1TH / Great Britain Tel.: +44 0870 460 8996 Fax: +44 0870 460 8997, e.mail: uk@tetenal.com, www.tetenal.co.uk • Further information obtainable from: Department environment and safety. E-mail: info@tetenal.com · Information in case of emergency: Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790 2 Hazards identification · Hazard description: Not applicable. • Information concerning particular hazards for human and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. · Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. · GHS label elements Danger H318 - Causes serious eye damage. Safety data sheet available on request. · Prevention: P280 Wear protective gloves/protective clothing/eye protection/face protection. · Response: 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 or doctor/physician. **3** Composition/information on ingredients · Chemical characterization

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

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CAS: 7681-57-4	disodium disulphite	1-5%
EINECS: 231-673-0	🗙 Xn, 🗙 Xi; R 22-31-41	
	Danger: 🕘 3.3/1	
	Warning: 1 3.1.0/4	
CAS: 64-19-7	acetic acid	1-5%
EINECS: 200-580-7	C; R 10-35	
	Danger: 🕘 3.2/1A	
	Warning: 🔞 2.6/3	
CAS: 1303-96-4	BORAX; Disodium tetraborate, decahydrate	<2%
EINECS: 215-540-4	(waterfree CAS 1330-43-4)	
	Repr. Cat. 2; 🔜 T; R 60-61	
	Danger: 🕹 3.7/1B	
· Additional information	tion: For the wording of the listed risk phrases refer to section 16.	

4 First aid measures

· General information:

Immediately remove any clothing/shoes soiled by the product.

- Take affected persons out into the fresh air.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- 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.

5 Fire-fighting measures

· Suitable extinguishing agents:

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Ensure adequate ventilation
- · Measures for environmental protection:
- Dilute with plenty of water.

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

· Measures for cleaning/collecting:

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

· Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Information for safe handling: No special measures required.
- · Information about fire and explosion protection: Protect from heat.
- · 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.

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Store under lock and key and out of the reach of children. Recommended storage temperature: 5-25°C

8 Exposure controls/personal protection

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

· Ingredients with limit values that require monitoring at the workplace:

7681-57-4 disodium disulphite (1-5%)

WEL Long-term value: 5 mg/m³

• Additional information: The lists valid during the making were used as basis.

- · 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.

- **Respiratory protection:** Not required.
- · Protection of hands:

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

Gove material: Butyl rubber with breakthroug-time: \geq 480 min, layer thickness: \geq 0,4 mm

Gloves made of nitrile rubber with layer thickness >0,38mm and breakthrough-time >480min

Glove material: Neopren with breakthrough time: >240 min, layer thickness: >0,65 mm

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

• Eye protection: Safety glasses

· Body protection: Protective work clothing

9 Physical and chemical properties · General Information Form: Fluid **Colour:** Colourless **Odour:** Rotten · Change in condition Melting point/Melting range: Undetermined. **Boiling point/Boiling range:** > 100°C · Flash point: Not applicable. · Self-igniting: Product is not selfigniting. (Contd. on page 4) GB



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· Danger of explosion:	Product does not present an explosion hazard.	
· Vapour pressure at 20°C:	23 hPa	
· Density at 20°C:	1.296 g/cm ³	
· Solubility in / Miscibility with		
water:	Fully miscible.	
· pH-value at 20°C:	5.2	
· Solvent content:		
Organic solvents:	2.2 %	
Water:	47.5 %	

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: Stable at environment temperature.

- Materials to be avoided:
- · Dangerous reactions Contact with acids releases irritant gases.
- · Dangerous decomposition products:
- Sulphur dioxide

Irritant gases/vapours

Carbon monoxide and carbon dioxide

11 Toxicological information

- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- \cdot Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

· 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

13 Disposal considerations

- · Product:
- · Recommendation

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

 \cdot European waste catalogue

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· Uncleaned packaging:

· Recommendation:

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Dispose of packaging according to regulations on the disposal of packagings. Disposal must be made according to official regulations.

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

14 Transport information

· Land transport ADR/RID (cross-border)

· ADR/RID class:

- · Maritime transport IMDG:
- · IMDG Class:
- · Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: -

· UN "Model Regulation": -

15 Regulatory information

· Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

· Special labelling of certain preparations:

Safety data sheet available for professional user on request.

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 R-phrases

10 Flammable.

- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 35 Causes severe burns.
- 41 Risk of serious damage to eyes.
- 60 May impair fertility.
- 61 May cause harm to the unborn child.
- · Department issuing MSDS: Department product safety
- · Contact: e-mail: sida@tetenal.com
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals