

Safety data sheet

according to 1907/2006/EC, Article 31

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

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. 1.1 Product identifier . Trade name: SUPERFIX PLUS . Article number: 102760, 102764, 102762 . 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 environment and safety. E-Mail: info@tetenal.com . 1.4 Emergency telephone number: Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790 **SECTION 2: Hazards identification** . 2.1 Classification of the substance or mixture . Classification according to Regulation (EC) No 1272/2008 GHS07 Eye Irrit. 2 H319 Causes serious eye irritation. . Classification according to Directive 67/548/EEC or Directive 1999/45/EC 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. _____ . 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 GHS07 . Signal word Warning . Hazard statements H319 Causes serious eye irritation. . Precautionary statements If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children.

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(Contd. of page 1) P103 Read label before use. P280 Wear protective gloves/protective clothing/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.

. 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: 107-21-1	ethylene glycol	1-<3%
EINECS: 203-473-3	🗙 Xn R22	
Index number: 603-027-00-1	♦ Acute Tox. 4, H302	
CAS: 64-19-7	acetic acid	<1%
EINECS: 200-580-7	🛃 C R35	
Index number: 607-002-00-6	R10	
Reg.nr.: 01-2119475328-30	🚸 Flam. Liq. 3, H226; 🚸 Skin Corr. 1A, H314	
CAS: 7681-57-4	sodium metabisulphite (sodium disulphite)	<2%
EINECS: 231-673-0	🗙 Xn R22; 🗙 Xi R41	
Index number: 016-063-00-2	R31	
Reg.nr.: 01-2119531326-45	📀 Eye Dam. 1, H318; 🚸 Acute Tox. 4, H302	
CAS: 7631-90-5	sodium hydrogensulphite %	1-5%
EINECS: 231-548-0	🗙 Xn R22	
Index number: 016-064-00-8	R31	
	Acute Tox. 4, H302	
. Additional information: For	the wording of the listed risk 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 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.

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. 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: No special measures required.
- . 7.2 Conditions for safe storage, including any incompatibilities
- . Storage:

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. 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.
- . Further information about storage conditions:
- Protect from heat and direct sunlight.

8.1 Control parameters

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

Recommended storage temperature: 5-25 °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.

7631-90-5 sodium h	ydrogensulphite % (3-5%)					
WEL (Great Britain)	Long-term value: 5 mg/m ³					
REL (USA)	Long-term value: 5 mg/m ³					
TLV (USA)	Long-term value: 5 mg/m ³					
107-21-1 ethylene g	ycol (1- <3%)					
WEL (Great Britain)	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk *particulate **vapour					
IOELV (EU)	Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin					
TLV (USA)	Long-term value: NIC-10* mg/m ³ C e i l i n g : (100) mg/m ³ (H);*as inhalable fraction and vapor	1	i	m	i	t



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Form: Colour:

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		lium disulphite) (1- <2%)
WEL (Great Britain)) Long-term value: :	5 mg/m ³
REL (USA)	Long-term value:	5 mg/m ³
TLV (USA)	Long-term value:	5 mg/m ³
. Additional informa	tion: The lists valid	during the making were used as basis.
 Additional informa 8.2 Exposure control Personal protective General protective The usual precaution Avoid contact with t Do not inhale gases Do not eat, drink, sn Respiratory protect Protection of hands The glove material h Selection of the glove Material of gloves The selection of the glo application. Butyl rubber, BR Nitrile rubber, NBR Neoprene gloves Penetration time of Gove material Butyl rubber: Nitrile rubber: Nitrile rubber: Neoprene: The exact break troo observed. Eye protection: 	tion: The lists valid ols equipment: and hygienic meas hary measures are to he eyes and skin. / fumes / aerosols. hoke or sniff while w tion: Ensure adequa s: has to be impermeab // material on consider we gloves suitable gloves does nufacturer to manue we material can not figlove material breakthroug-time >480 min >240 min ugh time has to be figloges	l during the making were used as basis. Aures: b be adhered to when handling chemicals. working. ate ventilation ble and resistant to the product/ the substance/ the preparation. deration of the penetration times, rates of diffusion and the degradation es not only depend on the material, but also on further marks of quality ifacturer. As the product is a preparation of several substances, the be calculated in advance and has therefore to be checked prior to the layer thickness ≥0,4mm ≥0,65mm found out by the manufacturer of the protective gloves and has to be
SECTION 9: Ph	ysical and chen	nical properties
. 9.1 Information on . General Informatio . Appearance: Form:		chemical properties

Fluid

Colourless

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. Odour:	Recognisable	
. pH-value at 20 °C:	5.2	
. Change in condition Melting point/Melting range: Boiling point/Boiling range:		
. Flash point:	Not applicable.	
. Self-igniting:	Product is not selfigniting.	
. Danger of explosion:	Product does not present an explosion hazard.	
. Vapour pressure at 20 °C:	23 hPa	
. Density at 20 °C:	1.33 g/cm ³	
. Solubility in / Miscibility with water:	Fully miscible.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
 Solvent content: Water: 9.2 Other information 	>38 % No further relevant information available.	

SECTION 10: Stability and reactivity

- . 10.1 Reactivity
- . 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

SECTION 11: Toxicological information

- . 11.1 Information on toxicological effects
- . Acute toxicity:

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- . Primary irritant effect:
- . on the skin: No irritant effect.
- . on the eye: Irritating effect.
- . Sensitisation: No sensitising effects known.

SECTION 12: Ecological information

- . 12.1 Toxicity
- . Aquatic toxicity: No further relevant information available.
- . 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.

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. Additional ecological information:

. General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system.

. 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 informat	ion
. 14.1 UN-Number . ADR, ADN, IMDG, IATA	Void
. 14.2 UN proper shipping name . ADR, ADN, IMDG, IATA	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 Anne MARPOL73/78 and the IBC Code	x II of Not applicable.
. UN "Model Regulation":	-

SECTION 15: Regulatory information

. **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.

. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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This	CTION 16: Other information information is based on our present knowledge. However, this shall not constitute a guarantee for any ific product features and shall not establish a legally valid contractual relationship.
Rele	want phrases
	6 Flammable liquid and vapour.
	2 Harmful if swallowed.
	4 Causes severe skin burns and eye damage.
пэт	8 Causes serious eye damage.
R10	Flammable.
R22	Harmful if swallowed.
	Contact with acids liberates toxic gas.
	Causes severe burns.
	Risk of serious damage to eyes.
. Abb	reviations and acronyms:
	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning th
	ational Transport of Dangerous Goods by Rail)
	b: International Civil Aviation Organisation : Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
	age of Dangerous Goods by Road)
	3: International Maritime Code for Dangerous Goods
	: International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
	CS: European Inventory of Existing Commercial Chemical Substances
	CS: European List of Notified Chemical Substances
	Chemical Abstracts Service (division of the American Chemical Society)
	Liq. 3: Flammable liquids, Hazard Category 3
	e Tox. 4: Acute toxicity, Hazard Category 4 Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
	Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
	rrit. 2: Serious eye damage/eye irritation, Hazard Category 2
	ita compared to the previous version altered.