

Page 1/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking . 1.1 Product identifier . Trade name: COLORTEC© E-6 **First Developer FD** . Article number: 102034 FD, 102036 FD . 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 Developer 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 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. . Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Sensitising R43: May cause sensitisation by skin contact. . Information concerning particular hazards for human and environment: The product has 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-determining components of labelling: 4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (HMP) . Hazard statements H315 Causes skin irritation. (Contd. on page 2)

- EN



Printing date 20.04.2016

11210 0

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6 First Developer FD

(Contd. of page 1)

Page 2/8

H319 Causes serious eye irritation.			
H317 May cause an allergic skin reaction.			
. Precautionary statements			
P101	If medical advice is needed, have product container or label at hand.		
P102	Keep out of reach of children.		
P280	Wear protective gloves / eye 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.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P302+P352	IF ON SKIN: Wash with plenty of soap and water.		
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:

· Dangerous components.		
CAS: 21799-87-1	Potassium 2,5-dihydroxybenzenesulphonate	5-10%
EINECS: 244-584-7	Xi R36/37/38	
	V Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 584-08-7	potassium carbonate	5-10%
EINECS: 209-529-3	🗙 Xi R36/37/38	
Reg.nr.: 01-2119532646-36	🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 111-46-6	diethylene glycol	5-10%
EINECS: 203-872-2	Xn R22	
Index number: 603-140-00-6	😼 STOT RE 2, H373; 🚯 Acute Tox. 4, H302	
CAS: 13047-13-7	4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (HMP)	<1%
EINECS: 235-920-3	🗙 Xn R22; 🗙 Xi R43; 🏪 N R51/53	
۸ J. J. M J. M. C	Aquatic Chronic 2, H411; () Acute Tox. 4, H302; Skin Sens. 1, H31	7

. 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

- . After inhalation: Supply fresh air and to be sure call for a doctor.
- . 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: 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.

(Contd. on page 3)



Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6 First Developer FD

(Contd. of page 2)

Page 3/8

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). 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.

Prevent formation of aerosols.

. 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: No special requirements.

- . Information about storage in one common storage facility: Store away from foodstuffs.
- . Further information about storage conditions:
- Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

Flotect from heat and unect sumight.

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

Recommended storage temperature: 5-30 °C Protect from exposure to the light.

- **7.2** Superification design (a) No forther relevant in
- . 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:

111-46-6 diethylene glycol (5-10%)

WEL Long-term value: 101 mg/m³, 23 ppm

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

(Contd. on page 4)



Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Page 4/8

Trade name: COLORTEC© E-6 **First Developer FD**

(Contd. of page 3)

		(Contu. of page 5)
. 8.2 Exposure con	ntrols	
. Personal protect		
	ve and hygienic meas	ures:
	ove all soiled and conta	
	re breaks and at the end	
	th the eyes and skin.	J OI WOIK.
	tection: Not required.	
. Protection of ha		
. Protection of na	lus:	
Protec	ctive gloves	
Impervious glove	ç	
		le and resistant to the product/ the substance/ the preparation.
		deration of the penetration times, rates of diffusion and the degradation
-		Jeration of the perietration times, rates of unfusion and the degradation
. Material of glove		
		s not only depend on the material, but also on further marks of quality
		afacturer. As the product is a preparation of several substances, the
	glove material can not	be calculated in advance and has therefore to be checked prior to the
application.		
Butyl rubber, BR		
Nitrile rubber, NI	3R	
Neoprene gloves		
Penetration time	e of glove material	
Gove material	breakthroug-time	layer thickness
Butyl rubber:	>480 min	≥0,4mm
Nitrile rubber:	>480 min	≥0,38mm
Neoprene:	>240 min	≥0,65mm
		found out by the manufacturer of the protective gloves and has to be
observed.	nough time has to be	found out by the manufacturer of the protective gloves and has to be
Eye protection: S	Safety alasses	
	Protective work cloth	ing
body protection	FIOLECLIVE WOLK CIOU	ing
SECTION 9.	Physical and cher	nical properties
SECTION 7.	i nysicai anu chei	
. 9.1 Information	on basic physical and	chemical properties
General Informa	ition	
Appearance:		
Form:	Fluid	
Colour:	Light	yellow
Odour:		nisable
pH-value at 20 °	C: ~9.9	
-		
Change in condi Melting point/	tion Melting range: Undet	ermined.

Boiling point/Boiling range: > 100 °C . Flash point: Not applicable.

. Ignition temperature:

230 °C . Self-igniting: Product is not selfigniting.

(Contd. on page 5)

EN



Page 5/8

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

ć	actor uning to 1907/2000/EC, ATticle 51	
Printing date 20.04.2016	version no: 2	Revision: 20.04.2016
Trade name: COLORTEC© E-6 First Developer FD		
		(Contd. of page 4)
. Danger of explosion:	Product does not present an explosion hazard.	
. Vapour pressure at 20 °C:	23 hPa	
. Density at 20 °C:	~1.28 g/cm ³	
. Solubility in / Miscibility with water:	Fully miscible.	
. Solvent content: Organic solvents: Water:	5.2 % >61 %	
. 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 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:

21799-87-1 Potassium 2,5-dihydroxybenzenesulphonate

Oral LD50 >10000 mg/kg (rat)

584-08-7 potassium carbonate

Oral LD50 >2000 mg/kg (rat)

111-46-6 diethylene glycol

Oral LD50 12565 mg/kg (rat)

13047-13-7 4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (HMP)

Oral LD50 566 mg/kg (rat)

- . Primary irritant effect:
- . Skin corrosion/irritation
- Causes skin irritation.
- . Serious eye damage/irritation

Causes serious eye irritation.

- . Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- . CMR effects (carcinogenity, 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.

(Contd. on page 6)

- El



Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

(Contd. of page 5)

Page 6/8

Trade name: COLORTEC© E-6 First Developer FD

. Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

. 12.1 Toxicity

. Aquatic toxicity:

111-46-6 diethylene glycol

EC50 24h: >1000 mg/l (daphnia magna (Water flea))

LC50 96h: >32000 mg/l (Invertebrates)

13047-13-7 4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (HMP)

LC50 1-10 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 2 (German Regulation) (Self-assessment): hazardous for water 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. Rinse out concentrate residues with some of the water used for the solution and add to the solution in question. Return the containers for recycling without concentrate residues. For further information on waste management techniques for photographic chemicals please contact the local environmental authorities.

. European waste catalogue

09 01 01* water-based developer and activator solutions

- . Uncleaned packaging:
- . Recommendation: Disposal must be made according to official regulations.
- . Recommended cleansing agents: Water, if necessary together with cleansing agents.

. 14.1 UN-Number		
. ADR, ADN, IMDG, IATA	Void	
. 14.2 UN proper shipping name		
. ADR	Void	
. ADN, IMDG, IATA	Void	



Page 7/8

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

rinting date 20.04.2016	version no: 2	Revision: 20.04.2010
Frade name: COLORTEC© E-6 First Developer FD		
		(Contd. of page 6
. 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 Ann	ex II of	
Marpol and the IBC Code	Not applicable.	
. UN "Model Regulation":	Void	

No further relevant information available.

. 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

. Contact: e-mail: 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

(Contd. on page 8)



Page 8/8

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

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6 First Developer FD

(Contd. of page 7)

Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 . * **Data compared to the previous version altered.**



Page 1/7

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

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking . 1.1 Product identifier . Trade name: COLORTEC© E-6 **Colour Developer** . Article number: 102034 CD, 102036 CD-Part1 . 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 Developer 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 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. . Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant R36/38: Irritating to eyes and skin. . Information concerning particular hazards for human and environment: The product has 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 H315 Causes skin irritation. H319 Causes serious eye irritation. . Precautionary statements P101 If medical advice is needed, have product container or label at hand.

(Contd. on page 2)

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Page 2/7

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

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6 Colour Developer

P102 Keep out of reach of children.
 P280 Wear protective gloves / eye 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.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 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: 7778-53-2	Tripotassium orthophosphate	10-<25%
EINECS: 213-907-1	Xi R36/37/38	
	🚺 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 1310-73-2	sodium hydroxide (caustic soda)	1-2%
EINECS: 215-185-5	🔁 C R35	
Index number: 011-002-	00-6 🐼 Met. Corr.1, H290; Skin Corr. 1A, H314	
Reg.nr.: 01-2119457892	-27	
Additional information	• For the wording of the listed hazard phrases refer to section 16	

. 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. If symptoms persist, consult a doctor.

. After swallowing:

Induce vomiting and call for medical help.

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

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

(Contd. on page 3)

EN -



Page 3/7

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

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6

Colour Developer

(Contd. of page 2)

. 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
- 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 Prevent formation of aerosols.

- . 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: No special requirements.
- . Information about storage in one common storage facility:
- Store away from foodstuffs. Do not store together with acids. Store away from oxidising agents. . Further information about storage conditions:
- Keep container tightly sealed. 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
- Protect from exposure to the light.
- . 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:
- 1310-73-2 sodium hydroxide (caustic soda) (<2.5%)
- WEL Short-term value: 2 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:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing

(Contd. on page 4)

EN



Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Page 4/7

Trade name: COLORTEC© E-6 Colour Developer

Do not inhale gas Avoid contact wit		d of work. if room is well-ventilated.
Protec	ctive gloves	
Selection of the g Material of glov The selection of t and varies from resistance of the application. Butyl rubber, BR Nitrile rubber, NI Neoprene gloves	al has to be impermeab love material on consides es he suitable gloves doe manufacturer to manu glove material can not BR	ble and resistant to the product/ the substance/ the preparation. deration of the penetration times, rates of diffusion and the degradation as not only depend on the material, but also on further marks of quality infacturer. As the product is a preparation of several substances, the be calculated in advance and has therefore to be checked prior to the
 Penetration time Gove material Butyl rubber: Nitrile rubber: Neoprene: The exact break observed. Eye protection: 	breakthroug-time >480 min >480 min >240 min	layer thickness $\geq 0,4mm$ $\geq 0,38mm$ $\geq 0,65mm$ found out by the manufacturer of the protective gloves and has to be
	ly sealed goggles : Protective work cloth	ing

SECTION 9: Physical and chemical properties			
9.1 Information on basic phys	sical and chemical properties		
General Information			
Appearance:			
Form:	Fluid		
Colour:	Light yellow		
Odour:	Recognisable		
pH-value at 20 °C:	>13		
Change in condition			
Melting point/Melting rang	e: Undetermined.		
Boiling point/Boiling range			
Flash point:	Not applicable.		
Self-igniting:	Product is not selfigniting.		



Page 5/7

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

	according to 1907/2000/EC, Afficie 51	
Printing date 20.04.2016	version no: 2	Revision: 20.04.2016
Frade name: COLORTEC© E-6 Colour Developer		
		(Contd. of page 4)
. Danger of explosion:	Product does not present an explosion hazard.	
. Vapour pressure at 20 °C:	23 hPa	
. Density at 20 °C:	~1.15 g/cm ³	
. Solubility in / Miscibility with water:	n Fully miscible.	
. Solvent content: Organic solvents: Water:	0.0 % >84 %	
. 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

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:

7778-53-2 Tripotassium orthophosphate

Oral LD50 4500 mg/kg (rat)

Dermal LD50 >4640 mg/kg (rabbit)

1310-73-2 sodium hydroxide (caustic soda)

Oral LD50 >2000 mg/kg (rat)

- . Primary irritant effect:
- . Skin corrosion/irritation
- Causes skin irritation.
- . Serious eye damage/irritation
- Causes serious eye irritation.
- . Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- . Additional toxicological information:

The preparation is "irritant". J.R. Young, M.J. How, A.P. Walker and W.M.H. Worth (1988): Classification as corrosive or irritant to skin of preparations containing acidic or alkaline substances, without testing on animals. Toxic. in Vitro, Bd.2, Nr.1, 1988, S.19-26].

- . CMR effects (carcinogenity, 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.

(Contd. on page 6)



version no: 2

Revision: 20.04.2016

(Contd. of page 5)

Page 6/7

Trade name: COLORTEC© E-6 Colour Developer

Printing date 20.04.2016

. 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 96h: 750 mg/l (fish)

1310-73-2 sodium hydroxide (caustic soda)

EC50 24h: 76 mg/l (daphnia magna (Water flea))

LC50 48h: 99 mg/l (Lepomis macrochirus (Sonnenbarsch))

96h: 45.4 mg/l (fish: Oncorhynchus mykiss)

- . 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 01 water-based developer and activator solutions

- . Uncleaned packaging:
- . Recommendation: Disposal must be made according to official regulations.
- . Recommended cleansing agents: Water, if necessary together with cleansing agents.

. 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	



Page 7/7

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

Printing date 20.04.2016	version no: 2	Revision: 20.04.2016		
Trade name: COLORTEC© E-6 Colour Developer				
		(Contd. of page 6)		
. 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** No further relevant information available.

. 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

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

R35 Causes severe burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

- . Department issuing MSDS: Department product safety
- . Contact: e-mail: 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
- Met. Corr.1: Corrosive to metals, Hazard Category 1
- Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- STOT SE 3: Specific target organ toxicity Single exposure, Hazard Category 3
- . * Data compared to the previous version altered.

EN -



Page 1/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking . 1.1 Product identifier . Trade name: COLORTEC© E-6 **Colour Developer CD-Part 2** . Article number: 102034 CD-P2, 102036 CD-Part2 . 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 Developer 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 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. . Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Sensitising R43: May cause sensitisation by skin contact. N; Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. . Information concerning particular hazards for human and environment: The product has 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 GHS09 . Signal word Warning

(Contd. on page 2)



Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6 Colour Developer CD-Part 2

(Contd. of page 1)

Page 2/8

. Hazard-determining components of labelling: N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3) . Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P280 Wear protective gloves / eye protection. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of soap and water. 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: 25646-71-3 N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide5-10% EINECS: 247-161-5 sesquisulphate (CD-3) Index number: 612-134-00-2 Xn R22; Xi R43; N R50/53

Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317. 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

- . After inhalation: Supply fresh air and to be sure call for a doctor.
- . After skin contact: Immediately wash with water and soap and rinse thoroughly.
- . After eye contact: Rinse opened eye for several (15 min) under running water.
- . After swallowing: 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.

(Contd. on page 3)



Page 3/8

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

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6 Colour Developer CD-Part 2

(Contd. of page 2)

. 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:

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

Inform respective authorities in case of seepage into water course or sewage system.

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. Prevent formation of aerosols.

. 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: 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

Protect from exposure to the light.

. **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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- . Additional information: The lists valid during the making were used as basis.
- . 8.2 Exposure controls
- . Personal protective equipment:
- . General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the skin.
- . Respiratory protection: Ensure adequate ventilation

(Contd. on page 4)

EN



Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6 Colour Developer CD-Part 2

(Contd. of page 3)

Page 4/8

. 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

Gove material Butyl rubber:

Nitrile rubber: Neoprene: >480 min >240 min

>480 min

breakthroug-time

layer thickness $\geq 0,4mm$ $\geq 0,38mm$ $\geq 0,65mm$

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

. Eye protection: Safety glasses

. 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 to sulfur dioxide . Odour: . pH-value at 20 °C: ~2 . Change in condition Melting point/Melting range: Undetermined. **Boiling point/Boiling range:** > 100 °C . Flash point: Not applicable. . Self-igniting: Product is not selfigniting. . Danger of explosion: Product does not present an explosion hazard. 23 hPa . Vapour pressure at 20 °C: . Density at 20 °C: ~1.204 g/cm3 . Solubility in / Miscibility with Fully miscible. water: . Solvent content: 0.0 % **Organic solvents:** Water: >89 % (Contd. on page 5)



Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Page 5/8

Trade name: COLORTEC© E-6 Colour Developer CD-Part 2

(Contd. of page 4)

. 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 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:

25646-71-3 N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)

Oral LD50 931 mg/kg (rat)

- . Primary irritant effect:
- . Skin corrosion/irritation
- Causes skin irritation.
- . Serious eye damage/irritation Causes serious eye irritation.
- . Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- . Additional toxicological information:

The preparation is "not irritant", because the puffer capacity (Young, How, Walker, Worth. Classification as Irritant of preparations containing acidic or alkaline substances without testing on animals. Toxicology in Vitro, 2, No. 1, pages 9-26, 1988,

- . CMR effects (carcinogenity, 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:

25646-71-3 N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)

LC50 96h: 1.8 mg/l (fish: Pimephales promelas)

- . 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.
- . Ecotoxical effects:
- . Remark: Toxic for fish

(Contd. on page 6)

[—] EN



version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6 Colour Developer CD-Part 2

(Contd. of page 5)

Page 6/8

. Additional ecological information:

. General notes:

Printing date 20.04.2016

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous. Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Danger to drinking water if even extremely 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.

. European waste catalogue

09 01 01 water-based developer and activator 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	UN3082
. 14.2 UN proper shipping name . ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamnine derviate)
. IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (p-Phenylenediamine derivate CD-3) MARINE POLLUTANT
. IATA	Environmentally hazardous substance, liquid, n.o.s. (p Phenylenediamine derivate CD-3)
. 14.3 Transport hazard class(es) . ADR	
. Class	9 (M6) Miscellaneous dangerous substances and articles.
	(Contd. on page 2



Page 7/8

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

Printing date 20.04.2016	version no: 2	Revision: 20.04.2016
Trade name: COLORTEC© E-6 Colour Developer CD-Part 2		
		(Contd. of page 6)
. Label	9	
. IMDG, IATA		
. Class . Label	9 Miscellaneous dangero 9	ous substances and articles.
. 14.4 Packing group		
. ADR, IMDG, IATA	III	
. 14.5 Environmental hazards: . Marine pollutant:	Product contains enviro p-Phenylenediamine deri Yes	nmentally hazardous substances: ivate CD-3
. Special marking (ADR): . Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)	
. 14.6 Special precautions for user . Danger code (Kemler):	Warning: Miscellaneo articles. 90	ous dangerous substances and
. EMS Number: . Stowage Category	F-A,S-F A	
. 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
. Transport/Additional information:		
. ADR . Limited quantities (LQ) . Excepted quantities (EQ)		er inner packaging: 30 ml er outer packaging: 1000 ml
. Transport category . Tunnel restriction code	3 E	er outer puokugnig. 1000 mi
. IMDG . Limited quantities (LQ) . Excepted quantities (EQ)		er inner packaging: 30 ml er outer packaging: 1000 ml
. UN "Model Regulation":	UN3082; ENVIRON SUBSTANCE, LIQUID,	MENTALLY HAZARDOUS , N.O.S.; 9; III

SECTION 15: Regulatory information

. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

. Directive 2012/18/EU

. Qualifying quantity (tonnes) for the application of lower-tier requirements $200\ t$

. Qualifying quantity (tonnes) for the application of upper-tier requirements $500\ t$

(Contd. on page 8)

- EN



version no: 2

Revision: 20.04.2016

Trade name: COLORTEC© E-6 Colour Developer CD-Part 2

Printing date 20.04.2016

(Contd. of page 7)

Page 8/8

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

	FION 16: Other information offormation is based on our present knowledge. However, this shall not constitute a guarantee for an
	c product features and shall not establish a legally valid contractual relationship.
	ant phrases
	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
 R22	Harmful if swallowed.
R43	
	May cause sensitisation by skin contact.
	³ Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	ct: e-mail: sida@tetenal.com
	viations and acronyms:
	glement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning
	ional Transport of Dangerous Goods by Rail)
	nternational Civil Aviation Organisation ccord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
	e of Dangerous Goods by Road)
	International Maritime Code for Dangerous Goods
	nternational Air Transport Association
GHS: G	lobally Harmonised System of Classification and Labelling of Chemicals
	E European Inventory of Existing Commercial Chemical Substances
	: European List of Notified Chemical Substances
	hemical Abstracts Service (division of the American Chemical Society)
	ethal concentration, 50 percent ethal dose, 50 percent
	rsistent, Bioaccumulative and Toxic
	ery Persistent and very Bioaccumulative
	ox. 4: Acute toxicity, Hazard Category 4
	t. 2: Skin corrosion/irritation, Hazard Category 2
	. 2: Serious eye damage/eye irritation, Hazard Category 2
	ns. 1: Sensitisation - Skin, Hazard Category 1
Aquatic	Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
	Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2



Printing date 20.04.2016

version no: 3

Revision: 20.04.2016

Page 1/6

SECTION 1: Identification of the substance/mixture and of the company/undertaking . 1.1 Product identifier . Trade name: COLORTEC© C-41/E6 **Bleach Fix BX Part 1** . Article number: 102034 BX-P1, 102230 BX-Part1, 102036 BX-Part1, 102221 BX-Part1 . 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 Bleachfix preparation 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 Avoid contact with eyes, skin and clothing. Avoid mist. Keep container closed. Use eye protection, chemicalresistant gloves and skin protection. Wash thoroughly after handling. Keep out of reach of children.FIRST AID: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and immediately flush skin with soap and with plenty of water. Get medical attention if symptoms occur. If swallowed induce vomiting immediately as directed by medical personnel. The product is not classified according to the CLP regulation. . 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. No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet. **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 Void . Hazard pictograms Void . Signal word Void . Hazard statements Void . Precautionary statements KEEP OUT OF REACH OF CHLIDREN . Additional information: Safety data sheet available on request. . 2.3 Other hazards . Results of PBT and vPvB assessment . **PBT:** Not applicable.

(Contd. on page 2)



Printing date 20.04.2016

version no: 3

Revision: 20.04.2016

Trade name: COLORTEC© C-41/ E6 Bleach Fix BX Part 1

(Contd. of page 1)

Page 2/6

. **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: Void
- . Not hazardous components:

CAS: 68413-60-5 Ammonium ferric ethylenediaminetetraacetic acid (Ferric ammonium25-50% EINECS: 270-232-7 ethylenediaminetetraacetate complex)

. 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.
- . 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).
- . 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.

(Contd. on page 3)



Printing date 20.04.2016

version no: 3

Revision: 20.04.2016

Trade name: COLORTEC© C-41/ E6 Bleach Fix BX Part 1

(Contd. of page 2)

Page 3/6

. 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: No special requirements.

. Information about storage in one common storage facility: Store away from foodstuffs.

. Further information about storage conditions:

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- . Additional information: The lists valid during the making were used as basis.
- . 8.2 Exposure controls
- . Personal protective equipment:
- . General protective and hygienic measures: Avoid contact with the skin.
- . Respiratory protection: Not required.
- . 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

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene 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.

. 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: Safety glasses
- . Body protection: Protective work clothing

9.1 Information on basic General Information Appearance:	physical and chemical properties	
Form:	Fluid	
Colour:	red brown	
Odour:	Odourless	
. pH-value at 20 °C:	~6.8	



Page 4/6

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

Printing date 20.04.2016

version no: 3

Revision: 20.04.2016

Trade name: COLORTEC© C-41/ E6 Bleach Fix BX Part 1

		(Contd. of page
. Change in condition Melting point/Melting rang 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:	~1.24 g/cm ³	
. Solubility in / Miscibility wit water:	h Fully miscible.	
. Solvent content: Organic solvents: Water: . 9.2 Other information	0.7 % >59 % 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 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.
- . 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 (carcinogenity, 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.
- . 12.3 Bioaccumulative potential No further relevant information available.

(Contd. on page 5)



Printing date 20.04.2016

version no: 3

Revision: 20.04.2016

Trade name: COLORTEC© C-41/E6 Bleach Fix BX Part 1

(Contd. of page 4)

Page 5/6

. 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 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. **European waste catalogue**

- 09 01 05 bleach solutions and bleach 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 informa	ition	
. 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 Ann Marpol and the IBC Code	nex II of Not applicable.	
. UN "Model Regulation":	Void	

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.

(Contd. on page 6)



Printing date 20.04.2016

version no: 3

Revision: 20.04.2016

Trade name: COLORTEC© C-41/E6 Bleach Fix BX Part 1

(Contd. of page 5)

Page 6/6

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.

. Contact: e-mail: 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

. * Data compared to the previous version altered.

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Page 1/6

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

Printing date 20.04.2016

version no: 4

Revision: 20.04.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking . 1.1 Product identifier . Trade name: COLORTEC© C-41/E6 **Bleach Fix BX Part 2** . Article number: 102034 BX P2, 102221 BX-Part2, 102230 BX-Part2, 102036 BX-Part2 . 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 Bleachfix preparation 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 TETENAL LTD., Tetenal House, Centurion Way, Meridian Industrial Estate, Leicester LE19 1WH/Great Britain, Tel. 0116-263 03 06, Fax 0116-263 00 87, eMail: uk@tetenal.com . Further information obtainable from: Department environment and safety. 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 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

Avoid contact with eyes, skin and clothing. Avoid mist. Keep container closed. Use eye protection, chemicalresistant gloves and skin protection. Wash thoroughly after handling. Keep out of reach of children.FIRST AID: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and immediately flush skin with soap and with plenty of water. Get medical attention if symptoms occur. If swallowed induce vomiting immediately as directed by medical personnel.

The product is not classified according to the CLP regulation.

. 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.

No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet. **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 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.

(Contd. on page 2)

(dust)

(Contd. on page 3)

ETENAL Page 2/6

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

Printing date 20.04.2016

version no: 4

Revision: 20.04.2016

(Contd. of page 1)

Trade name: COLORTEC© C-41/ E6 Bleach Fix BX Part 2

. **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:

. Not hazardous components:

CAS: 7783-18-8 Ammonium thiosulphate

EINECS: 231-982-0

Reg.nr.: 01-2119537325-41

. 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
- . 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:
- If symptoms persist consult doctor.
- Rinse out mouth and then drink plenty of water.
- . 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
- Nitrogen oxides (NOx)

Sulphur dioxide (SO2)

- . 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).

5-10%

25-50%



Printing date 20.04.2016

version no: 4

Revision: 20.04.2016

Trade name: COLORTEC© C-41/ E6 Bleach Fix BX Part 2

(Contd. of page 2)

Page 3/6

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:
- . 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.

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:

7681-57-4 sodium metabisulphite (1-5%)

- WEL 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.
- Avoid contact with the eyes and skin.
- Keep away from foodstuffs, beverages and feed.
- . Respiratory protection: Ensure adequate ventilation
- . 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: Safety glasses
- . Body protection: Protective work clothing

(Contd. on page 4)



Page 4/6

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

Printing date 20.04.2016

version no: 4

Revision: 20.04.2016

Trade name: COLORTEC© C-41/ E6 Bleach Fix BX Part 2

(Contd. of page 3)

. 9.1 Information on basic physical and chemical properties . General Information		
Appearance:		
Form:	Fluid	
Colour:	Light yellow	
. Odour:	Recognisable	
. pH-value at 20 °C:	5.4	
. Change in condition		
Melting point/Melting range:		
Boiling point/Boiling range:	> 100 °C	
. 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:	~1.34 g/cm ³	
. Solubility in / Miscibility with		
water:	Fully miscible.	
. Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
. Solvent content:		
Water:	>40 %	
. 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

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- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 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.

(Contd. on page 5)

⁻ EN



Printing date 20.04.2016

version no: 4

Revision: 20.04.2016

Trade name: COLORTEC© C-41/ E6 Bleach Fix BX Part 2

(Contd. of page 4)

Page 5/6

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

. Germ cell mutagenicity $\ensuremath{\mathsf{Based}}$ on available data, the classification criteria are not met.

. Carcinogenicity $\ensuremath{\mathsf{Based}}$ 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.
- . 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 05 bleach solutions and bleach 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, 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	
		(Contd. on page 6



Page 6/6

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

according to 1707/2000/EC, Article 31		
Printing date 20.04.2016	version no: 4	Revision: 20.04.2016
Trade name: COLORTEC© C-41/ E6 Bleach Fix BX Part 2		
		(Contd. of page 5)
. 14.5 Environmental hazards:		
. Marine pollutant:	No	
. 14.6 Special precautions for user	Not applicable.	
. 14.7 Transport in bulk according to An	inex 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** No further relevant information available.

. 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.

R22 Harmful if swallowed.

- R31 Contact with acids liberates toxic gas.
- . Contact: e-mail: 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, Hazard Category 4

. * Data compared to the previous version altered.

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Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Page 1/8

SECTION 1: Identification of the substance/mixture and of the company/undertaking . 1.1 Product identifier . Trade name: COLORTEC E-6 3-Bath STAB Stabilizer . Article number: 245603, 102031 STAB, 102034 STAB . 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 Stabilizer 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 Skin Sens. 1 H317 May cause an allergic skin reaction. Muta. 2 H341 Suspected of causing genetic defects. Carc. 1A H350i May cause cancer by inhalation. . Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xn; Harmful R40: Limited evidence of a carcinogenic effect. Xi; Sensitising R43: May cause sensitisation by skin contact. . Information concerning particular hazards for human and environment: The product has 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 EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials. . Code letter and hazard designation of product: Xn Harmful

. Hazard-determining components of labelling: formaldehyde

(Contd. on page 2)

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Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC E-6 3-Bath STAB Stabilizer

(Contd. of page 1)

Page 2/8

. Risk phrases:

40 Limited evidence of a carcinogenic effect.

43 May cause sensitisation by skin contact.

. Safety phrases:

- 2 Keep out of the reach of children.
- 29 Do not empty into drains.
- 36/37 Wear suitable protective clothing and gloves.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- . 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: 50-00-0	formaldehyde	~2%
EINECS: 200-001-8	😡 T Carc. Cat. 2 R45-23/24/25; 🗾 C R34; 🗙 Xn R68; 🗙 Xi R43	
Index number: 605-001-00-5	5 Muta. Cat. 3	
Reg.nr.: 01-2119488953-20	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta 2, H341; Carc. 1A, H350i; Skin Corr. 1B, H314; Skin Sens. 1, H317	1.
CAS: 68131-39-5	Alcohol ethoxylate	<1%
NLP: 500-195-7	🗙 Xn R22; 🗙 Xi R41; 🏪 N R50	
Additional information · Fo	Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302	

. 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

. After inhalation:

×

- Supply fresh air and to be sure call for a doctor.
- 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 (15 min) under running water.
- . After swallowing:
- If symptoms persist consult doctor.
- Induce vomiting only, if affected person is fully conscious.
- . 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- . Information for doctor:
- Links for hazardous substances data GESTISwww.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Stoffdatenbank/index.jsp
- . 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

(Contd. on page 3)

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Safety data sheet

according to 1907/2006/EC, Article 31

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC E-6 3-Bath STAB Stabilizer

(Contd. of page 2)

Page 3/8

SECTION 5: Firefighting measures

. 5.1 Extinguishing media

Printing date 20.04.2016

. 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).

Dispose contaminated material as waste according to item 13.

. 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: No special measures required.

. 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:
- Store in cool, dry conditions in well sealed receptacles.

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:

50-00-0 formaldehyde (1-5%)

WEL Short-term value: 2.5 mg/m³, 2 ppm

Long-term value: 2.5 mg/m³, 2 ppm

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

(Contd. on page 4)



Printing date 20.04.2016

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version no: 2

Revision: 20.04.2016

Trade name: COLORTEC E-6 3-Bath STAB Stabilizer

(Contd. of page 3)

Page 4/8

		(
8.2 Exposure cont		
Personal protectiv		
	e and hygienic meas	
	odstuffs, beverages a ve all soiled and contained and con	
	breaks and at the en	
Avoid contact with		d of work.
	ection: Ensure adequa	ate ventilation
Protection of hand		
all		
JN2 Dratast	ive aleves	
Protect	ive gloves	
The glove material	has to be impermeat	ble and resistant to the product/ the substance/ the preparation.
		deration of the penetration times, rates of diffusion and the degradation
Material of gloves		
		es not only depend on the material, but also on further marks of quality
		ufacturer. As the product is a preparation of several substances, th
U	ove material can not	t be calculated in advance and has therefore to be checked prior to th
application.		
Butyl rubber, BR		
Nitrile rubber, NBI	K	
Neoprene gloves	af alama matanial	
Penetration time o Gove material	breakthroug-time	lavar thickness
Butyl rubber:	>480 min	layer thickness ≥0,4mm
Nitrile rubber:	>480 min	≥0,38mm
Neoprene:	>240 min	≥0,65mm
		found out by the manufacturer of the protective gloves and has to b
observed.	C	
Eye protection:		
	1 1 1	
	v sealed goggles	
Safety glasses		
	Protective work cloth	ning
		6
SECTION 9: P	Physical and cher	mical properties
0.1 Information of	n hasia nhusiaal and	I shamiaal manantias
General Informat		l chemical properties
Appearance:	1011	
Form:	Fluid	
Colour:	Colou	ırless
Odour:	Recos	gnisable
pH-value at 20 °C	-	
-		
Change in conditi		
Melting noint/M	lelting range: 0 °C	en met in en al
		erminea
Boiling point/Bo	biling range: Under	



Page 5/8

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

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC E-6 3-Bath STAB Stabilizer

		(Contd. of page 4)
. 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:	1.002 g/cm ³	
. Solubility in / Miscibility with water:	Fully miscible.	
. Solvent content: Organic solvents: Water: . 9.2 Other information	2.8 % >96 % 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 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:

50-00-0 formaldehyde

Oral LD50 100 mg/kg (rat)

Dermal LD50 270 mg/kg (rabbit)

Inhalative LC50 0.57 mg/l (rat)

68131-39-5 Alcohol ethoxylate

Oral LD50 1200 mg/kg (rat)

Dermal LD50 5000 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
- May cause an allergic skin reaction.
- . CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- . Germ cell mutagenicity

Suspected of causing genetic defects.

- . Carcinogenicity
- May cause cancer by inhalation.
- . 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.

(Contd. on page 6)



Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

(Contd. of page 5)

Page 6/8

Trade name: COLORTEC E-6 3-Bath STAB Stabilizer

. Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- . 12.1 Toxicity
- . Aquatic toxicity:

50-00-0 formaldehyde

EC50 96h: 24 mg/l (daphnia magna (Water flea))

LC50 96h: 24 mg/l (fish: Pimephales promelas)

68131-39-5 Alcohol ethoxylate

EC50 48h: 0.4-075 mg/l (daphnia magna (Water flea))

LC50 96h: 2.7 mg/l (fish: Pimephales promelas)

- . 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 99 wastes not otherwise specified

- . 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, ADN, IMDG, IATA Void . 14.3 Transport hazard class(es) . . ADR, ADN, IMDG, IATA Void . 14.4 Packing group . . ADR, IMDG, IATA Void



Page 7/8

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

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC E-6 3-Bath STAB Stabilizer

		(Contd. of page 6)
. 14.5 Environmental hazards: . Marine pollutant:	No	
. 14.6 Special precautions for user	Not applicable.	
. 14.7 Transport in bulk according to An Marpol and the IBC Code	nex II of Not applicable.	
. UN "Model Regulation":	Void	

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.

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

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H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H350i	May cause cancer by inhalation.
H400	Very toxic to aquatic life.
R22	Harmful if swallowed.
	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R45	May cause cancer.
R50	Very toxic to aquatic organisms.
R68	Possible risk of irreversible effects.
Departme	nt issuing MSDS: Department product safety
-	e-mail: sida@tetenal.com
Abbrevia	tions and acronyms:
	nent international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
	Transport of Dangerous Goods by Rail)
	ational Civil Aviation Organisation d européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
	Dangerous Goods by Road)
	national Maritime Code for Dangerous Goods
IATA: Intern	ational Air Transport Association
	ly Harmonised System of Classification and Labelling of Chemicals
	ropean Inventory of Existing Commercial Chemical Substances ropean List of Notified Chemical Substances
	cal Abstracts Service (division of the American Chemical Society)
	concentration, 50 percent
	l dose, 50 percent
PBT: Persist	ent, Bioaccumulative and Toxic (Contd. on page 8)



Page 8/8

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

Printing date 20.04.2016

version no: 2

Revision: 20.04.2016

Trade name: COLORTEC E-6 3-Bath STAB Stabilizer

(Contd. of page 7)

vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Muta. 2: Germ cell mutagenicity, Hazard Category 2 Carc. 1A: Carcinogenicity, Hazard Category 1Ai Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 . * **Data compared to the previous version altered.**