08.07.2014	Kit Components	
Product code	Description	

102124 Kit	COLORTEC RA-4 Professionel Print Kit RT
	for 5 Liter

## Components:

102124	Colortec RA-4 Professionel Print Kit RT Colour Developer
102124 CD-P2	Colortec RA-4 Prof. Print Kit RT CD-Part 2
102124 BX 1	Colortec RA-4 Prof. Print Bleachfix BX Part1
102124 BX-P2	Colortec RA-4 Prof. Print Bleachfix BX Part 2



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

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

. 1.1 Product identifier

. Trade name: COLORTEC RA-4 Professionel Print Kit RT Colour Developer

. Article number: 102124, Part 1

. 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



Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

. Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R22: Harmful if swallowed.



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.

(Contd. on page 2)



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

#### Trade name: COLORTEC RA-4 Professionel Print Kit RT Colour Developer

(Contd. of page 1)

#### . Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature

#### . 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

N Dangerous for the environment

#### . Hazard-determining components of labelling:

N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3) diethylene glycol

#### . Risk phrases:

- 22 Harmful if swallowed.
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### . Safety phrases:

- 24 Avoid contact with skin.
- 37 Wear suitable gloves.
- 57 Use appropriate container to avoid environmental contamination.
- . 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 characterization: Mixtures
- . **Description:** Mixture of substances listed below and with nonhazardous additions.

. Dangerous components:		
CAS: 111-46-6	diethylene glycol	25-50%
EINECS: 203-872-2	<b>X</b> Xn R22	
Index number: 603-140-00-6	① Acute Tox. 4, H302	
CAS: 107-21-1	ethylene glycol / ethane-1,2-diol	10-25%
EINECS: 203-473-3	<b>X</b> Xn R22	
Index number: 603-027-00-1	① Acute Tox. 4, H302	
CAS: 25646-71-3	N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide	5-10%
EINECS: 247-161-5	sesquisulphate (CD-3)	
Index number: 612-134-00-2	<b>X</b> Xn R22; <b>X</b> Xi R43; <b>№</b> N R50/53	
	Aquatic Chronic 1, H410; � Acute Tox. 4, H302; Skin Sens. 1, H317	

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

-EN



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: COLORTEC RA-4 Professionel Print Kit RT Colour Developer

(Contd. of page 2)

#### **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 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 minutes under running water. If symptoms persist, consult a doctor.

. After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

. 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

. 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

- . 5.1 Extinguishing media
- . Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

. 5.2 Special hazards arising from the substance or mixture

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

- . 5.3 Advice for firefighters
- . Protective equipment: 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:

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).

Dispose contaminated material as waste according to item 13.

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

Keep away from heat and direct sunlight.

Prevent formation of aerosols.

. Information about fire - and explosion protection: No special measures required.

(Contd. on page 4)



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: COLORTEC RA-4 Professionel Print Kit RT Colour Developer

(Contd. of page 3)

- . 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.

Store away from oxidizing agents.

. 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: 5-25 °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 lim	. Ingredients with limit values that require monitoring at the workplace:		
111-46-6 diethylene	111-46-6 diethylene glycol (25-50%)		
WEL (Great Britain)	Long-term value: 101 mg/m³, 23 ppm		
WEEL (USA)	Long-term value: 10 mg/m³		
107-21-1 ethylene gl	107-21-1 ethylene glycol / ethane-1,2-diol (10-<25%)		
WEL (Great Britain)	Short-term value: 104** mg/m³, 40** ppm Long-term value: 10* 52** mg/m³, 20** ppm Sk *particulate **vapour		
IOELV (EU)	Short-term value: 104 mg/m³, 40 ppm Long-term value: 52 mg/m³, 20 ppm Skin		
TLV (USA)	Short-term value: C 100 mg/m³ H		

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

. Respiratory protection:

Not necessary if room is well-ventilated.

required at the appearance from fumes/vapours/aerosol. Filter ABEK

. Protection of hands:



Protective gloves

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 5)

-EN



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: COLORTEC RA-4 Professionel Print Kit RT Colour Developer

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#### . 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 Neoprene gloves Nitrile rubber, NBR

#### . Penetration time of glove material

Gove materialbreakthroug-timelayer thicknessButyl rubber:>480 min≥0,4mmNitrile rubber:>480 min≥0,38mmNeoprene:>240 min≥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:



Tightly sealed goggles

. Body protection: Protective work clothing

### **SECTION 9: Physical and chemical properties**

- . 9.1 Information on basic physical and chemical properties
- . General Information
- . Appearance:

Form: Fluid
Colour: Light red
. Odour: Pungent

to sulfur dioxide

. pH-value at 20  $^{\circ}$ C:

. Change in condition

**Melting point/Melting range:** Undetermined. **Boiling point/Boiling range:** > 100 °C

. Flash point: Not applicable.

. **Ignition temperature:** 230 °C

. **Self-igniting:** Product is not selfigniting.

. **Danger of explosion:** Product does not present an explosion hazard.

. Explosion limits:

**Lower:** 0.7 Vol % Upper: 53.0 Vol %

. Vapour pressure at 20 °C: 23 hPa

. **Density at 20 °C:** 1.097 g/cm<sup>3</sup>

. Solubility in / Miscibility with

water: Fully miscible.

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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: COLORTEC RA-4 Professionel Print Kit RT Colour Developer

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. Solvent content:

Organic solvents: 25.8 % Water: >44 %

. **9.2 Other information** No further relevant information available.

### **SECTION 10: Stability and reactivity**

- . 10.1 Reactivity
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidizing 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:
- . 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:
- . on the skin: No irritant effect.
- . on the eye: No irritating effect.
- . Sensitization: Sensitization possible through skin contact.
- . Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful Irritant

#### **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 (fat)

- . 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
- . Additional ecological information:
- . General notes:

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

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.

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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: COLORTEC RA-4 Professionel Print Kit RT Colour Developer

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- . 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, IMDG, IATA	UN3082
. 14.2 UN proper shipping name	
. ADR	3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamin derivate CD-3)
. IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC
	LIQUID, N.O.S. (p-Phenylenediamine derivate CD-3 MARINE POLLUTANT
. IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (p-Phenylenediamine derivate CD-3)
. 14.3 Transport hazard class(es)	
. Class	9 (M6) Miscellaneous dangerous substances and articles.
. Label	9
. IMDG, IATA	
9	
. Class	9 Miscellaneous dangerous substances and articles.

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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: COLORTEC RA-4 Professionel Print Kit RT Colour Developer

	(Contd. of page
. 14.5 Environmental hazards:	Product contains environmentally hazardous substances p-Phenylenediamine derivate CD-3
. Marine pollutant:	Yes
	Symbol (fish and tree)
. Special marking (ADR):	Symbol (fish and tree)
. Special marking (IATA):	Symbol (fish and tree)
. 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
. Danger code (Kemler):	90
. EMS Number:	F-A,S-F
. 14.7 Transport in bulk according to Anno	ex II of
MARPOL73/78 and the IBC Code	Not applicable.
. Transport/Additional information:	
. ADR	
. Limited quantities (LQ)	5L
. Transport category	3
. Tunnel restriction code	E
. UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamin derivate CD-3), 9, III

## **SECTION 15: Regulatory information**

. 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.
- 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.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- . 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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 Harmonized 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)

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

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Trade name: COLORTEC RA-4 Professionel Print Kit RT Colour Developer

(Contd. of page 8)

LC50: Lethal concentration, 50 percent

LD50: Lethal concentration, 30 percent LD50: Lethal dose, 50 percent Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

. \* Data compared to the previous version altered.



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

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

. 1.1 Product identifier

. Trade name: Colortec RA-4 Prof. Print Kit RT CD-Part 2

. Article number: 102124 CD-P2, 44124

. 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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory 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 does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

. Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

. 2.2 Label elements

. Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Kit RT CD-Part 2

(Contd. of page 1)

. Code letter and hazard designation of product:



Xi Irritant

. Risk phrases:

36/38 Irritating to eyes and skin.

- . Safety phrases:
- 60 This material and its container must be disposed of as hazardous waste.
- . 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 characterization: Mixtures
- . **Description:** Mixture of substances listed below and with nonhazardous additions.

. Dangerous components:		
CAS: 584-08-7	potassium carbonate	10-<25%
EINECS: 209-529-3	<b>X</b> i R36/38	
Reg.nr.: 01-2119532646-36	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 133986-51-3	2,2'-(Hydroxylimino)bisethanesulphonicacid, disodium salt (SEHA)	5-10%
	Xi R36	
	R52/53	
	Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 111-42-2	diethanolamine	1-<2%
EINECS: 203-868-0	<b>X</b> n R22-48/22; <b>X</b> i R38-41	
Index number: 603-071-00-1	♦ STOT RE 2, H373; ♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	

#### . Not hazardous components:

CAS: 7732-18-5 water EINECS: 231-791-2

50-90%

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

## **SECTION 4: First aid measures**

- . 4.1 Description of first aid measures
- . General information: Immediately remove any clothing/shoes soiled by the product.
- . After 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 minutes under running water. Then consult a doctor.
- . 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.

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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Kit RT CD-Part 2

(Contd. of page 2)

. 4.3 Indication of any immediate medical attention and special treatment needed  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

No further relevant information available.

## **SECTION 5: Firefighting measures**

- . 5.1 Extinguishing media
- . Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- . 5.3 Advice for firefighters
- . Protective equipment: No special measures required.

#### **SECTION 6: Accidental release measures**

- . 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- . 6.2 Environmental precautions:

Dilute with plenty of water.

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

. 6.3 Methods and material for containment and cleaning up:

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

Pick up mechanically.

. 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

- . **7.1 Precautions for safe handling** No special measures required.
- . Information about fire and explosion protection: 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.

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

Recommended storage temperature: 5-25 °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.

(Contd. on page 4)



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Kit RT CD-Part 2

(Contd. of page 3)

- . 8.2 Exposure controls
- . Personal protective equipment:
- . General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- . Respiratory protection: Ensure adequate ventilation
- . Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### . Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

#### . Penetration time of glove material

Gove material breakthroug-time layer thickness Butyl rubber: >480 min  $\geq 0,4 \text{mm}$  Nitrile rubber: >480 min  $\geq 0,38 \text{mm}$  Neoprene: >240 min  $\geq 0,65 \text{mm}$ 

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

. Eve protection:



Tightly sealed goggles

. **Body protection:** Protective work clothing

## **SECTION 9: Physical and chemical properties**

- . 9.1 Information on basic physical and chemical properties
- . General Information
- . Appearance:

Form: Fluid
Colour: Light yellow
. Odour: Recognizable

. **pH-value at 20 °C:** 10.9

. Change in condition

**Melting point/Melting range:** Undetermined. **Boiling point/Boiling range:** > 100 °C

. Flash point: Not applicable.

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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Kit RT CD-Part 2

	(Contd. of page 4)
. 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:	1.305 g/cm³
. Solubility in / Miscibility with water:	Fully miscible.
. Solvent content: Organic solvents: Water: . 9.2 Other information	1.5 % >63 % No further relevant information available.

### **SECTION 10: Stability and reactivity**

- . 10.1 Reactivity
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidizing 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:
- . Primary irritant effect:
- . on the skin: Irritant to skin and mucous membranes.
- . on the eye: Irritating effect.
- . Sensitization: No sensitizing effects known.
- . Additional toxicological information:

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

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

## **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 undiluted product or large quantities of it to reach ground water, water course or sewage system. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

- . 12.5 Results of PBT and vPvB assessment
- . **PBT:** Not applicable.
- . vPvB: Not applicable.

(Contd. on page 6)



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Kit RT CD-Part 2

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. 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- . 13.1 Waste treatment methods
- . Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

. 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, 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 Annex II o MARPOL73/78 and the IBC Code	<b>f</b> Not applicable.
. UN "Model Regulation":	-

## **SECTION 15: Regulatory information**

. 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.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

(Contd. on page 7)



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Kit RT CD-Part 2

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H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### . 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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 Harmonized 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)

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

. \* Data compared to the previous version altered.

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

Printing date 08.07.2014 version no: 1 Revision: 07.07.2014

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

. 1.1 Product identifier

. Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part1

. **Article number:** 102124 BX 1, 45474 Part 1

. 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

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.
- . vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

- . 3.2 Chemical characterization: Mixtures
- . **Description:** Mixture of substances listed below and with nonhazardous additions.

(Contd. on page 2)



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

Printing date 08.07.2014 version no: 1 Revision: 07.07.2014

Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part1

(Contd. of page 1)

. Dangerous components:

CAS: 64-19-7 acetic acid EINECS: 200-580-7 C R35

1-5%

Index number: 607-002-00-6 R10

Reg.nr.: 01-2119475328-30 Flam. Liq. 3, H226; Skin Corr. 1A, H314

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

#### **SECTION 4: First aid measures**

- . 4.1 Description of first aid measures
- . **General information:** Immediately remove any clothing/shoes soiled by the product.
- . After 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.
- . 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

. 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

- . 5.1 Extinguishing media
- . Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- . 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- . 5.3 Advice for firefighters
- . Protective equipment: No special measures required.

#### **SECTION 6: Accidental release measures**

- . 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- . 6.2 Environmental precautions:

Dilute with plenty of water.

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

. 6.3 Methods and material for containment and cleaning up:

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

. **6.4 Reference to other sections** No dangerous substances are released.

#### **SECTION 7: Handling and storage**

- . 7.1 Precautions for safe handling No special measures required.
- . Information about fire and explosion protection: 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.

(Contd. on page 3)



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

Printing date 08.07.2014 version no: 1 Revision: 07.07.2014

Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part1

(Contd. of page 2)

Recommended storage temperature: 5-25 °C

. 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

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

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and 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

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 breakthroug-time layer thickness
Butyl rubber: >480 min ≥0,4mm
Nitrile rubber: >480 min ≥0,38mm
Neoprene: >240 min ≥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: Dark red
Odourless

. **pH-value at 20 °C:** 6.7

. Change in condition

Melting point/Melting range: Undetermined. Boiling point/Boiling range: > 100 °C

(Contd. on page 4)



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

Printing date 08.07.2014 version no: 1 Revision: 07.07.2014

Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part1

	(Contd. of page 3
. 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:	1.222 g/cm³
. Solubility in / Miscibility with water:	Fully miscible.
. Solvent content: Organic solvents: Water: . 9.2 Other information	1.3 % >61 % No further relevant information available.

### **SECTION 10: Stability and reactivity**

- . 10.1 Reactivity
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions 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:
- . Primary irritant effect:
- . on the skin: No irritant effect.
- . on the eye: No irritating effect.
- . Sensitization: No sensitizing effects known.
- . Additional toxicological information:

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

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

## **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:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

(Contd. on page 5)



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

Printing date 08.07.2014 version no: 1 Revision: 07.07.2014

Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part1

(Contd. of page 4)

- . 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
. 14.5 Environmental hazards: . Marine pollutant:	No
. 14.6 Special precautions for user	Not applicable.
. 14.7 Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code	of Not applicable.
. UN "Model Regulation":	-

## **SECTION 15: Regulatory information**

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

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Relevant phrases

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

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

Printing date 08.07.2014 Revision: 07.07.2014 version no: 1

Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part1

(Contd. of page 5)

R10 Flammable.

R35 Causes severe burns.

. 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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 Harmonized 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)

Flam. Liq. 3: Flammable liquids, Hazard Category 3 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

. \* Data compared to the previous version altered.



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

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

. 1.1 Product identifier

. Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part 2

. **Article number:** 102124 BX-P2, 44593 Part 2

. 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

. Application of the substance / the mixture 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



Eye Dam. 1 H318 Causes serious eye damage.

. Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36: Irritating to eyes.

. 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:



Xi Irritant

. Risk phrases:

36 Irritating to eyes.

(Contd. on page 2)



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part 2

(Contd. of page 1)

- . Safety phrases:
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 60 This material and its container must be disposed of as hazardous waste.
- . 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 characterization: Mixtures
- . **Description:** Mixture of substances listed below and with nonhazardous additions.

	<b>Dangerous</b>	components:
--	------------------	-------------

, 2 mgcr ous components				
CAS: 7681-57-4	sodium metabisulphite (sodium disulphite)	5-10%		
EINECS: 231-673-0	<b>X</b> Xn R22; <b>X</b> Xi R41			
Index number: 016-063-00-2	R31			
Reg.nr.: 01-2119531326-45	🔷 Eye Dam. 1, H318; 🔥 Acute Tox. 4, H302			

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

## **SECTION 4: First aid measures**

- . 4.1 Description of first aid measures
- . General information: Immediately remove any clothing/shoes soiled by the product.
- . After 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 minutes under running water. If symptoms persist, 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.

### **SECTION 5: Firefighting measures**

- . 5.1 Extinguishing media
- . Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . 5.2 Special hazards arising from the substance or mixture

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

- . 5.3 Advice for firefighters
- . **Protective equipment:** 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).

(Contd. on page 3)



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part 2

(Contd. of page 2)

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

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

- . 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.

Store away from oxidizing 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: 5-25 °C

. **7.3 Specific end use(s)** No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- . Additional information about design of technical facilities: No further data; see item 7.
- . 8.1 Control parameters
- . Ingredients with limit values that require monitoring at the workplace:

#### 7681-57-4 sodium metabisulphite (sodium disulphite) (5-10%)

WEL Long-term value: 5 mg/m<sup>3</sup>

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- . Respiratory protection: Ensure adequate ventilation
- . Protection of hands:

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

. Material of gloves

(Contd. on page 4)



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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part 2

(Contd. of page 3

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 breakthroug-time layer thickness Butyl rubber: >480 min  $\geq 0,4 \text{mm}$  Nitrile rubber: >480 min  $\geq 0,38 \text{mm}$  Neoprene: >240 min  $\geq 0,65 \text{mm}$ 

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

. Eye protection:



Tightly sealed goggles

. **Body protection:** Protective work clothing

### **SECTION 9: Physical and chemical properties**

- . 9.1 Information on basic physical and chemical properties
- . General Information
- . Appearance:

Form: Fluid
Colour: Light yellow
Odour: Pungent

. pH-value at 20  $^{\circ}$ C: 5.3

. 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.

. **Vapour pressure at 20 °C:** 23 hPa

. **Density at 20 °C:** 1.364 g/cm<sup>3</sup>

. Solubility in / Miscibility with

water: Fully miscible.

. Solvent content:

Organic solvents: 0.0 % Water: 40.5 %

. **9.2 Other information** No further relevant information available.

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

Printing date 08.07.2014 version no: 1 Revision: 08.07.2014

Trade name: Colortec RA-4 Prof. Print Bleachfix BX Part 2

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### **SECTION 10: Stability and reactivity**

- . 10.1 Reactivity
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions 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:
- . Primary irritant effect:
- . on the skin: No irritant effect.
- . on the eye: Irritating effect.
- . Sensitization: No sensitizing effects known.
- . Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

**Irritant** 

#### **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.

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

SECTION 14: Transport informati	on
. 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 Annex MARPOL73/78 and the IBC Code	x II of  Not applicable.
. UN ''Model Regulation'':	-

### **SECTION 15: Regulatory information**

. 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.

H318 Causes serious eye damage.

- R22 Harmful if swallowed.
- R31 Contact with acids liberates toxic gas.
- R41 Risk of serious damage to eyes.
- . 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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 Harmonized 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)

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Acute Tox. 4: Acute toxicity, Hazard Category 4
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
. \* Data compared to the previous version altered.