

Product code	Description
<b>102228 Kit</b>	<b>Colortec C-41 Negative-Kit Rapid liquid f. 5L for rotary development 38°C /45°C</b>

## Components:

102228	COLORTEC C-41 Negativ Kit Rapid CD Farbewickler
102228 CD-P2	COLORTEC C-41 Negativ Kit Rapid Farbewickler CD Part 2
102226 CD-P3	COLORTEC C-41 Negativ Kit Rapid CD Part 3 Farbewickler
102228 BX-P1	COLORTEC C-41/ E-6 Negativ Kit Rapid BX-Part 1
102228 BX P2	COLORTEC C-41/E-6 Negativ Kit Bleichfixierbad BX Part 2
102228 STAB	COLORTEC C-41 Stabilisierbad STAB conc. 50ml

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/29/2014

Reviewed on 07/29/2014

### 1: Identification

- . **1.1 Product identifier**
- . **Trade name:** COLORTEC C-41 Negativ Kit Rapid Colour-Developer
- . **Article number:** 102228, 102226, CD 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) 40 521 45-296  
www.tetenal.com; E-mail: info@tetenal.com
- . **Information department:** Department environment and safety. E-Mail: info@tetenal.com
- . **1.4 Emergency telephone number:**  
Poison Information Centre Berlin/Germany: +49 (0) 30 - 30686 790 (English 24hours)

### 2: Hazard(s) identification

- . **2.1 Classification of the substance or mixture**
- . **Classification according to Regulation (EC) No 1272/2008**  
WARNING! MAY CAUSE ALLERGIC SKIN REACTION. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Avoid contact with eyes, skin and clothing. Avoid mist. Keep container closed. Use eye protection, chemical-resistant gloves and skin protection. Wash thoroughly after handling.  
First aid: In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  
KEEP OUT OF REACH OF CHILDREN.



GHS08

Carc. 2 H351 Suspected of causing cancer.



GHS07

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

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



Harmful

Limited evidence of a carcinogenic effect.



Irritant

May cause sensitisation by skin contact.

- . **Information concerning particular hazards for human and environment:**  
The product has to be labeled due to the calculation procedure of international guidelines.
- . **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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**Trade name: COLORTEC C-41 Negativ Kit Rapid Colour-Developer**

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### . 2.2 Label elements

#### . Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

#### . Code letter and hazard designation of product:



Xi Irritant

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

bis(hydroxylammonium) sulphate

#### . Risk phrases:

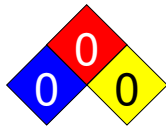
May cause sensitisation by skin contact.  
Limited evidence of a carcinogenic effect.

#### . Safety phrases:

Keep out of the reach of children.  
Avoid contact with skin.  
Wear suitable gloves.  
If swallowed, seek medical advice immediately and show this container or label.  
Do not empty into drains.

#### . Classification system:

#### . NFPA ratings (scale 0 - 4)



Health = 0  
Fire = 0  
Reactivity = 0

#### . HMIS-ratings (scale 0 - 4)



Health = \*0  
Fire = 0  
Reactivity = 0

### . 2.3 Other hazards

#### . Results of PBT and vPvB assessment

. **PBT:** Not applicable.  
. **vPvB:** Not applicable.

## 3: Composition/information on ingredients

### . 3.2 Chemical characterization: Mixtures

. **Description:** Mixture of the substances listed below with nonhazardous additions.

#### . Dangerous components:

CAS: 10039-54-0	bis(hydroxylammonium) sulphate	1- <3%
Index number: 612-123-00-2		
Reg.nr.: 01-2119485971-25-xxxx		

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**Trade name: COLORTEC C-41 Negativ Kit Rapid Colour-Developer**

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### 4: First-aid measures

- . **4.1 Description of first aid measures**
- . **General information:** Immediately remove any clothing 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:**
  - If symptoms persist consult doctor.
  - Drink copious amounts of water and provide fresh air. Immediately call a 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.

### 5: Fire-fighting measures

- . **5.1 Extinguishing media**
- . **Suitable extinguishing agents:**
  - CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **5.2 Special hazards arising from the substance or mixture**
  - In certain fire conditions, traces of other toxic gases cannot be excluded.
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

### 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.

### 7: Handling and storage

- . **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- . **Information about protection against explosions and fires:** 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.

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**Trade name: COLORTEC C-41 Negativ Kit Rapid Colour-Developer**

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- . **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.

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

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **8.1 Control parameters**
- . **Components 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 that were valid during the creation 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.
  - Do not inhale gases / fumes / aerosols.
  - Avoid contact with the eyes and skin.
- . **Breathing equipment:** Not necessary if room is well-ventilated.
- . **Protection of hands:**



Protective gloves

Impervious gloves

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

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

- . **Material of gloves**

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

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

- . **Penetration time of glove material**

Glove material	breakthrough-time	layer thickness
Butyl rubber:	>480 min	≥0,4mm
Nitrile rubber:	>480 min	≥0,38mm
Neoprene:	>240 min	≥0,65mm

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

- . **Eye protection:**



Tightly sealed goggles

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**Trade name: COLORTEC C-41 Negativ Kit Rapid Colour-Developer**

. **Body protection:** Protective work clothing

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### 9: Physical and chemical properties

#### . 9.1 Information on basic physical and chemical properties

##### . General Information

##### . Appearance:

Form:	Fluid
Color:	Colorless
Odor:	Odorless

. pH-value at 20 °C (68 °F): 3.5

##### . Change in condition

Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	> 100 °C (> 212 °F)

. Flash point: Not applicable.

. Auto igniting: Product is not selfigniting.

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

. Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

. Density at 20 °C (68 °F): 1.021 g/cm<sup>3</sup> (8.52 lbs/gal)

##### . Solubility in / Miscibility with

Water: Fully miscible.

##### . Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

##### . Solvent content:

Organic solvents:	0.0 %
Water:	>96 %

. 9.2 Other information: No further relevant information available.

### 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/vapors

### 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: Sensitization possible through skin contact.

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**. Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

**. Carcinogenic categories**

**. IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**. NTP (National Toxicology Program)**

None of the ingredients is listed.

**. OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**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 (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.

**. 12.5 Results of PBT and vPvB assessment**

**. PBT:** Not applicable.

**. vPvB:** Not applicable.

**. 12.6 Other adverse effects** No further relevant information available.

**13: Disposal considerations**

**. 13.1 Waste treatment methods**

**. Recommendation:**

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

**. Uncleaned packagings:**

**. Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Disposal must be made according to official regulations.

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

**14: Transport information**

**. 14.1 UN-Number**

**. DOT, ADR, ADN, IMDG, IATA** Void

**. 14.2 UN proper shipping name**

**. DOT, ADN, IMDG, IATA** Void

**. ADR** Void

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<b>. 14.3 Transport hazard class(es)</b>	
<b>. DOT, ADR, ADN, IMDG, IATA</b>	
<b>. Class</b>	Void
<b>. 14.4 Packing group</b>	
<b>. DOT, ADR, IMDG, IATA</b>	Void
<b>. 14.5 Environmental hazards:</b>	
<b>. Marine pollutant:</b>	No
<b>. 14.6 Special precautions for user</b>	Not applicable.
<b>. 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>. UN "Model Regulation":</b>	-

**15: Regulatory information**

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

**. Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

**. Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**. TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**. Proposition 65**

**. Chemicals known to cause cancer:**

None of the ingredients is listed.

**. Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**. Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**. Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**. Cancerogenity categories**

**. EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**. TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**. NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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

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### 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.

. **Department issuing MSDS:** Department product safety

. **Date of preparation / last revision** 07/29/2014 / -

. **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 Organization

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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

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

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Reviewed on 07/29/2014

### 1: Identification

- . **1.1 Product identifier**
- . **Trade name:** COLORTEC C-41 Negativ Kit Rapid CD Part 2; Colour Developer
- . **Article number:** 102228 CD-P2, 102226 CD-P2, CD PART 2, 45606 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) 40 521 45-296  
www.tetenal.com; E-mail: info@tetenal.com
- . **Information department:** Department environment and safety. E-Mail: info@tetenal.com
- . **1.4 Emergency telephone number:**  
Poison Information Centre Berlin/Germany: +49 (0) 30 - 30686 790 (English 24hours)

### 2: Hazard(s) identification

- . **2.1 Classification of the substance or mixture**
- . **Classification according to Regulation (EC) No 1272/2008**  
WARNING! HARMFUL IF SWALLOWED. MAY CAUSE ALLERGIC SKIN REACTION. Do not take internally. Avoid contact with skin. Wash thoroughly after handling. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. First aid: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Further details see packing. KEEP OUT OF REACH OF CHILDREN



GHS09

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



GHS07

Eye Irrit. 2A 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**



Harmful

Harmful if swallowed.



Irritant

May cause sensitisation by skin contact.



Dangerous for the environment

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 labeled due to the calculation procedure of international guidelines.

- . **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 2; Colour Developer**

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### . 2.2 Label elements

#### . Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

#### . Code letter and hazard designation of product:



Xn Harmful  
N Dangerous for the environment

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

(4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate (CD-4)

#### . Risk phrases:

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

#### . Safety phrases:

Avoid contact with skin.  
Wear suitable gloves.  
Use appropriate container to avoid environmental contamination.  
Keep out of the reach of children.  
Do not empty into drains.

#### . Classification system:

##### . NFPA ratings (scale 0 - 4)



Health = 2  
Fire = 0  
Reactivity = 0

##### . HMIS-ratings (scale 0 - 4)



Health = \*2  
Fire = 0  
Reactivity = 0

### . 2.3 Other hazards

#### . Results of PBT and vPvB assessment

. **PBT:** Not applicable.  
. **vPvB:** Not applicable.

## 3: Composition/information on ingredients

### . 3.2 Chemical characterization: Mixtures

. **Description:** Mixture of the substances listed below with nonhazardous additions.

#### . Dangerous components:

CAS: 25646-77-9	(4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate (CD-4)	3-5%
Index number: 612-133-00-7		

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 2; Colour Developer**

CAS: 7681-57-4

Index number: 016-063-00-2

Reg.nr.: 01-2119531326-45

sodium metabisulphite (sodium disulphite)

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1- &lt;2%

### 4: First-aid measures

#### . 4.1 Description of first aid measures

##### . General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

##### . 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.

##### . After swallowing:

Rinse out mouth and then drink plenty of water.

Immediately call a 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.

### 5: Fire-fighting measures

#### . 5.1 Extinguishing media

##### . Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing 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 (NO<sub>x</sub>)

Sulphur dioxide (SO<sub>2</sub>)

#### . 5.3 Advice for firefighters

##### . Protective equipment: No special measures required.

### 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.

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.

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 2; Colour Developer**

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### 7: Handling and storage

#### . 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

. **Information about protection against explosions and fires:** 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: 5-25 °C  
Protect from exposure to the light.

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

### 8: Exposure controls/personal protection

. **Additional information about design of technical systems:** No further data; see item 7.

#### . 8.1 Control parameters

. **Components with limit values that require monitoring at the workplace:**

**7681-57-4 sodium metabisulphite (sodium disulphite) (1- <2%)**

REL (USA) Long-term value: 5 mg/m<sup>3</sup>

TLV (USA) Long-term value: 5 mg/m<sup>3</sup>

. **Additional information:** The lists that were valid during the creation 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.  
Avoid contact with the skin.

. **Breathing equipment:** Ensure adequate ventilation

##### . Protection of hands:



Protective gloves

##### Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### . Material of gloves

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

##### . Penetration time of glove material

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 2; Colour Developer**

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Glove 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:**



Tightly sealed goggles

Safety glasses

**. Body protection:** Protective work clothing

### 9: Physical and chemical properties

**. 9.1 Information on basic physical and chemical properties**

**. General Information**

**. Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	Light yellow
<b>. Odor:</b>	Pungent to sulfur dioxide

**. pH-value at 20 °C (68 °F):** 4.3

**. Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	> 100 °C (> 212 °F)

**. Flash point:** Not applicable.

**. Auto igniting:** Product is not selfigniting.

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

**. Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)

**. Density at 20 °C (68 °F):** 1.04 g/cm<sup>3</sup> (8.679 lbs/gal)

**. Solubility in / Miscibility with**

**Water:** Fully miscible.

**. Solvent content:**

<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	>92 %

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

### 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.

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Reviewed on 07/29/2014

Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 2; Colour Developer

. 10.6 Hazardous decomposition products: Irritant gases/vapors

(Contd. of page 5)

### 11: Toxicological information

. 11.1 Information on toxicological effects

. Acute toxicity:

. LD/LC50 values that are relevant for classification:

**25646-77-9 (4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate (CD-4)**

Dermal	LD50	>2000 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 internally approved calculation methods for preparations:

Harmful

Irritant

. Carcinogenic categories

. IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

. NTP (National Toxicology Program)

None of the ingredients is listed.

. OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12: Ecological information

. 12.1 Toxicity

. Aquatic toxicity:

**25646-77-9 (4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate (CD-4)**

LC50	96h: 0.75 mg/L (daphnia magna (Großer Wasserfloh))
------	--

	96h: 0.5-1.0 mg/L (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.

. Ecotoxicological 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 (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.

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**Safety Data Sheet**  
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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 2; Colour Developer**

. **12.6 Other adverse effects** No further relevant information available.

(Contd. of page 6)

**13: Disposal considerations**

. **13.1 Waste treatment methods**

. **Recommendation:**

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

. **Uncleaned packagings:**

. **Recommendation:** Disposal must be made according to official regulations.

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

**14: Transport information**

. **14.1 UN-Number**

. **DOT**

Void

. **ADR, IMDG, IATA**

UN3082

. **14.2 UN proper shipping name**

. **DOT**

Void

. **ADR**

3082 Environmentally hazardous substances, liquid, n.o.s. (p-Phenylenediamine derivate)

. **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamine derivate ), MARINE POLLUTANT

. **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamine derivate )

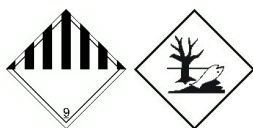
. **14.3 Transport hazard class(es)**

. **DOT**

. **Class**

Void

. **ADR**



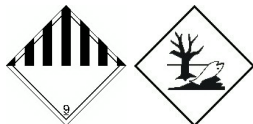
. **Class**

9 (M6) Miscellaneous dangerous substances and articles

. **Label**

9

. **IMDG, IATA**



. **Class**

9 Miscellaneous dangerous substances and articles

. **Label**

9

. **14.4 Packing group**

. **DOT**

Void

. **ADR, IMDG, IATA**

III

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## Safety Data Sheet acc. to OSHA HCS

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 2; Colour Developer**

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. <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: p-Phenylenediamine derivate
. <b>Marine pollutant:</b>	Yes
. <b>Special marking (ADR):</b>	Symbol (fish and tree)
. <b>Special marking (IATA):</b>	Symbol (fish and tree)
. <b>14.6 Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles
. <b>Danger code (Kemler):</b>	90
. <b>EMS Number:</b>	F-A,S-F
. <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>. Transport/Additional information:</b>	
<b>. ADR</b>	
. <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>. IMDG</b>	
. <b>Limited quantities (LQ)</b>	5L
. <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
. <b>UN "Model Regulation":</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s. (p-Phenylenediamine derivate), 9, III

### 15: Regulatory information

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

##### . Sara

##### . Section 355 (extremely hazardous substances):

None of the ingredient is listed.

##### . Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

##### . TSCA (Toxic Substances Control Act):

All ingredients are listed.

##### . Proposition 65

##### . Chemicals known to cause cancer:

None of the ingredients is listed.

##### . Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

##### . Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

##### . Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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## Safety Data Sheet acc. to OSHA HCS

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 2; Colour Developer**

(Contd. of page 8)

**. Cancerogenity categories**

**. EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**. TLV (Threshold Limit Value established by ACGIH)**

7681-57-4 sodium metabisulphite (sodium disulphite)

A4

**. NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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

### 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.

**. Department issuing MSDS:** Department product safety

**. Contact:** e-mail: sida@tetenal.com

**. Date of preparation / last revision** 07/29/2014 / -

**. 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 Organization

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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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

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

USA

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/29/2014

Reviewed on 07/29/2014

### 1: Identification

- . **1.1 Product identifier**
- . **Trade name:** COLORTEC C-41 Negativ Kit Rapid CD Part 3 Coulor Developer
- . **Article number:** 102226 CD-P3, 102228 CD-P3, 45607 CD-Part 3
- . **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) 40 521 45-296  
www.tetenal.com; E-mail: info@tetenal.com
- . **Information department:** Department environment and safety. E-Mail: info@tetenal.com
- . **1.4 Emergency telephone number:**  
Poison Information Centre Berlin/Germany: +49 (0) 30 - 30686 790 (English 24hours)

### 2: Hazard(s) identification

- . **2.1 Classification of the substance or mixture**
- . **Classification according to Regulation (EC) No 1272/2008**



GHS08

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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



Irritant

Irritating to eyes and skin.

- . **Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of international guidelines.

- . **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- . **2.2 Label elements**

- . **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

- . **Code letter and hazard designation of product:**



Xi Irritant

(Contd. on page 2)

USA

## Safety Data Sheet acc. to OSHA HCS

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 3 Coulor Developer**

(Contd. of page 1)

**. Hazard-determining components of labeling:**

potassium carbonate

**. Risk phrases:**

Irritating to eyes and skin.

**. Safety phrases:**

Keep out of the reach of children.

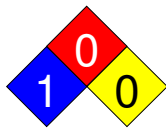
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Do not empty into drains.

If swallowed, seek medical advice immediately and show this container or label.

**. Classification system:**

**. NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 0

**. HMIS-ratings (scale 0 - 4)**



Health = \*1

Fire = 0

Reactivity = 0

**. 2.3 Other hazards**

**. Results of PBT and vPvB assessment**

. **PBT:** Not applicable.

. **vPvB:** Not applicable.

### 3: Composition/information on ingredients

**. 3.2 Chemical characterization: Mixtures**

. **Description:** Mixture of the substances listed below with nonhazardous additions.

**. Dangerous components:**

CAS: 584-08-7 RTECS: TS 7750000 Reg.nr.: 01-2119532646-36	potassium carbonate	25-50%
CAS: 140-01-2 Reg.nr.: 01-2119474445-33	Diethylenetriaminepentaacetic acid, pentasodium salt (DTPA-Na5)	1- <3%

### 4: First-aid measures

**. 4.1 Description of first aid measures**

. **General information:** Immediately remove any clothing 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:**

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

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 3 Coulor Developer**

(Contd. of page 2)

- . **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5: Fire-fighting measures

- . **5.1 Extinguishing media**
- . **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **5.2 Special hazards arising from the substance or mixture**  
In certain fire conditions, traces of other toxic gases cannot be excluded.
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

### 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.

### 7: Handling and storage

- . **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- . **Information about protection against explosions and fires:** 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 receptacle 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  
Protect from exposure to the light.
- . **7.3 Specific end use(s)** No further relevant information available.

### 8: Exposure controls/personal protection

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

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USA

## Safety Data Sheet

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Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 3 Coulor Developer

(Contd. of page 3)

### . 8.1 Control parameters

#### . Components 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 that were valid during the creation 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.

. **Breathing equipment:** Not necessary if room is well-ventilated.

#### . Protection of hands:



Protective gloves

Impervious gloves

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

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

#### . Material of gloves

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

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

#### . Penetration time of glove material

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

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

## 9: Physical and chemical properties

### . 9.1 Information on basic physical and chemical properties

#### . General Information

#### . Appearance:

**Form:** Fluid

**Color:** Yellow

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USA

## Safety Data Sheet acc. to OSHA HCS

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 3 Coulor Developer**

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. <b>Odor:</b>	Odorless
. <b>pH-value at 20 °C (68 °F):</b>	11.2
. <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
. <b>Flash point:</b>	Not applicable.
. <b>Auto igniting:</b>	Product is not selfigniting.
. <b>Danger of explosion:</b>	Product does not present an explosion hazard.
. <b>Vapor pressure at 20 °C (68 °F):</b>	23 hPa (17 mm Hg)
. <b>Density at 20 °C (68 °F):</b>	1.302 g/cm <sup>3</sup> (10.865 lbs/gal)
. <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Fully miscible.
. <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
. <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	68.2 %
. <b>9.2 Other information</b>	No further relevant information available.

### 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/vapors

### 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 shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
- . **Carcinogenic categories**
- . **IARC (International Agency for Research on Cancer)**
- None of the ingredients is listed.

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## Safety Data Sheet acc. to OSHA HCS

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 3 Coulor Developer**

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**. NTP (National Toxicology Program)**

None of the ingredients is listed.

**. OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 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:**

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 1 (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.

### 13: Disposal considerations

**. 13.1 Waste treatment methods**

**. Recommendation:**

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

**. Uncleaned packagings:**

**. Recommendation:** Disposal must be made according to official regulations.

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

### 14: Transport information

**. 14.1 UN-Number**

**. DOT, ADR, ADN, IMDG, IATA** Void

**. 14.2 UN proper shipping name**

**. DOT, ADR, ADN, IMDG, IATA** Void

**. 14.3 Transport hazard class(es)**

**. DOT, ADR, ADN, IMDG, IATA**

**. Class** Void

**. 14.4 Packing group**

**. DOT, ADR, IMDG, IATA** Void

**. 14.5 Environmental hazards:**

**. Marine pollutant:** No

**. 14.6 Special precautions for user**

Not applicable.

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**Safety Data Sheet**  
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Reviewed on 07/29/2014

**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 3 Coulor Developer**

(Contd. of page 6)

- . **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- . **UN "Model Regulation":** -

**15: Regulatory information**

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

. **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

. **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

. **TSCA (Toxic Substances Control Act):**

7732-18-5	water
584-08-7	potassium carbonate
298-14-6	potassium hydrogencarbonate

. **Proposition 65**

. **Chemicals known to cause cancer:**

None of the ingredients is listed.

. **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

. **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

. **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

. **Carcinogeny categories**

. **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

. **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

. **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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

**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.

. **Department issuing MSDS:** Department product safety

. **Contact:** e-mail: sida@tetenal.com

. **Date of preparation / last revision** 07/29/2014 / -

. **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 Organization

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**Safety Data Sheet**  
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Printing date 07/29/2014

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**Trade name: COLORTEC C-41 Negativ Kit Rapid CD Part 3 Coulor Developer**

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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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

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

Repr. 2: Reproductive toxicity, Hazard Category 2

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

USA

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/29/2014

Reviewed on 07/29/2014

### 1: Identification

#### 1.1 Product identifier

. Trade name: **COLORTEC C-41/ E-6 Negativ Kit Rapid BX-Part 1 Bleachfixbath**

. Article number: 102228 BX-P1, 102226 BX-P1, 44020 BX-P1, 102034 BX-P1, 102031 BX-P1

. 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) 40 521 45-296

www.tetenal.com; E-mail: info@tetenal.com

. Information department: Department environment and safety. E-Mail: info@tetenal.com

#### 1.4 Emergency telephone number:

Poison Information Centre Berlin/Germany: +49 (0) 30 - 30686 790 (English 24hours)

### 2: Hazard(s) 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, chemical-resistant gloves and skin protection.

Wash thoroughly after handling. 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 labeled due to the calculation procedure of international guidelines.

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

##### Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from 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 according to directives on hazardous materials.

##### Classification system:

##### NFPA ratings (scale 0 - 4)



##### HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

(Contd. on page 2)

USA

## Safety Data Sheet acc. to OSHA HCS

Printing date 07/29/2014

Reviewed on 07/29/2014

**Trade name: COLORTEC C-41/ E-6 Negativ Kit Rapid BX-Part 1 Bleachfixbath**

(Contd. of page 1)

- . **2.3 Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

### 3: Composition/information on ingredients

- . **3.2 Chemical characterization: Mixtures**
- . **Description:** Mixture of the substances listed below with nonhazardous additions.
- . **Dangerous components:** Void

. **Not hazardous components:**

21265-50-9	Ethylenediaminetetraacetic acid ferric ammonium salt/ Ferriammonium-complex	25-50%
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### 4: First-aid measures

- . **4.1 Description of first aid measures**
- . **General information:** Immediately remove any clothing 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.
- . **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.

### 5: Fire-fighting measures

- . **5.1 Extinguishing media**
- . **Suitable extinguishing agents:**  
CO2, extinguishing 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.

### 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.

USA

(Contd. on page 3)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/29/2014

Reviewed on 07/29/2014

Trade name: COLORTEC C-41/ E-6 Negativ Kit Rapid BX-Part 1 Bleachfixbath

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### 7: Handling and storage

- . **7.1 Precautions for safe handling** No special measures required.
- . **Information about protection against explosions and fires:** 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: 5-25 °C
- . **7.3 Specific end use(s)** No further relevant information available.

### 8: Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **8.1 Control parameters**
- . **Components 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 that were valid during the creation were used as basis.
- . **8.2 Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:** Avoid contact with the skin.
- . **Breathing equipment:** 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.

Gove material	breakthroug-time	layer thickness
Butyl rubber:	>480 min	≥0,4mm
Nitrile rubber:	>480 min	≥0,38mm
Neoprene:	>240 min	≥0,65mm
- . **Eye protection:** Safety glasses
- . **Body protection:** Protective work clothing

USA

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Trade name: COLORTEC C-41/ E-6 Negativ Kit Rapid BX-Part 1 Bleachfixbath

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### 9: Physical and chemical properties

#### . 9.1 Information on basic physical and chemical properties

##### . General Information

##### . Appearance:

Form:	Fluid
Color:	Dark red
Odor:	Odorless

. pH-value at 20 °C (68 °F): 6.8

##### . Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100 °C (> 212 °F)

. Flash point: Not applicable.

. Auto igniting: Product is not selfigniting.

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

. Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

. Density at 20 °C (68 °F): 1.24 g/cm<sup>3</sup> (10.348 lbs/gal)

##### . Solubility in / Miscibility with

Water: Fully miscible.

##### . Solvent content:

Organic solvents:	0.7 %
Water:	>59 %
VOC content:	0.7 %

. 9.2 Other information No further relevant information available.

### 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/vapors

### 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 internally approved calculation methods for preparations:

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

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USA

**Safety Data Sheet**  
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**Trade name: COLORTEC C-41/ E-6 Negativ Kit Rapid BX-Part 1 Bleachfixbath**

(Contd. of page 4)

**. Carcinogenic categories**

**. IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**. NTP (National Toxicology Program)**

None of the ingredients is listed.

**. OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**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 (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.

**13: Disposal considerations**

**. 13.1 Waste treatment methods**

**. Recommendation:**

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

**. Uncleaned packagings:**

**. Recommendation:** Disposal must be made according to official regulations.

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

**14: Transport information**

**. 14.1 UN-Number**

**. DOT, ADR, ADN, IMDG, IATA** Void

**. 14.2 UN proper shipping name**

**. DOT, ADR, ADN, IMDG, IATA** Void

**. 14.3 Transport hazard class(es)**

**. DOT, ADR, ADN, IMDG, IATA**

**. Class** Void

**. 14.4 Packing group**

**. DOT, ADR, IMDG, IATA** Void

**. 14.5 Environmental hazards:**

**. Marine pollutant:** No

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**Trade name: COLORTEC C-41/ E-6 Negativ Kit Rapid BX-Part 1 Bleachfixbath**

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. **14.6 Special precautions for user** Not applicable.

. **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

. **UN "Model Regulation":** -

**15: Regulatory information**

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

. **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

. **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

. **TSCA (Toxic Substances Control Act):**

7732-18-5 water

64-19-7 acetic acid

3179-31-5 1,2,4-triazole-3-thiol

. **Proposition 65**

. **Chemicals known to cause cancer:**

None of the ingredients is listed.

. **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

. **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

. **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

. **Carcinogenicity categories**

. **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

. **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

. **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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

**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

. **Date of preparation / last revision** 07/29/2014 / -

. **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 Organization

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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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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

USA

## Safety Data Sheet acc. to OSHA HCS

Printing date 07/29/2014

Reviewed on 07/29/2014

### 1: Identification

#### . 1.1 Product identifier

. Trade name: **COLORTEC C-41/ E-6 Negativ Kit BX Part 2**

. Article number: 102228 BX P2, 102226 BX-P2, 102031 BX-P2, 44021 BX-P2, 102034 BX-P2

#### . 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) 40 521 45-296

www.tetenal.com; E-mail: info@tetenal.com

. Information department: Department environment and safety. E-Mail: info@tetenal.com

#### . 1.4 Emergency telephone number:

Poison Information Centre Berlin/Germany: +49 (0) 30 - 30686 790 (English 24hours)

### 2: Hazard(s) 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, chemical-resistant gloves and skin protection.

Wash thoroughly after handling. 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 labeled due to the calculation procedure of international guidelines.

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

##### . Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

#### . 2.2 Label elements

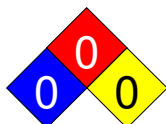
##### . Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

##### . Classification system:

##### . NFPA ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

##### . HMIS-ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

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USA

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**Trade name: COLORTEC C-41/ E-6 Negativ Kit BX Part 2**

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- . **2.3 Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

### 3: Composition/information on ingredients

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

. **Dangerous components:**

CAS: 7631-90-5 Index number: 016-064-00-8	sodium hydrogensulphite . . . %	3-5%
CAS: 64-19-7 Index number: 607-002-00-6 RTECS: AF 1225000 Reg.nr.: 01-2119475328-30	acetic acid	1- <2%

. **Not hazardous components:**

CAS: 7783-18-8 Reg.nr.: 01-2119537325-41	Ammonium thiosulphate	50-90%
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### 4: First-aid measures

- . **4.1 Description of first aid measures**
- . **General information:** No special measures required.
- . **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.
- . **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.

### 5: Fire-fighting measures

- . **5.1 Extinguishing media**
- . **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing 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 (NO<sub>x</sub>)  
Sulphur dioxide (SO<sub>2</sub>)
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

### 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.

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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.

### 7: Handling and storage

**. 7.1 Precautions for safe handling** No special measures required.

**. Information about protection against explosions and fires:** 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: 5-25 °C

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

### 8: Exposure controls/personal protection

**. Additional information about design of technical systems:** No further data; see item 7.

**. 8.1 Control parameters**

**. Components with limit values that require monitoring at the workplace:**

**7631-90-5 sodium hydrogensulphite . . . % (3-5%)**

REL (USA)	Long-term value: 5 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 5 mg/m <sup>3</sup>

**64-19-7 acetic acid (1- <2%)**

REL (USA)	Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
REL (USA)	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm
	Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
TLV (USA)	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm
	Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
IOELV (EU)	Long-term value: 25 mg/m <sup>3</sup> , 10 ppm

**. Additional information:** The lists that were valid during the creation were used as basis.

**. 8.2 Exposure controls**

**. Personal protective equipment:**

**. General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

**. Breathing equipment:** 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**

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## Safety Data Sheet acc. to OSHA HCS

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

Butyl rubber, BR  
Nitrile rubber, NBR  
Neoprene gloves

**. Penetration time of glove material**

Glove material	breakthrough-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

### 9: Physical and chemical properties

**. 9.1 Information on basic physical and chemical properties**

**. General Information**

**. Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	Light yellow
<b>. Odor:</b>	Recognizable

**. pH-value at 20 °C (68 °F):** 5.4

**. Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	> 100 °C (> 212 °F)

**. Flash point:** Not applicable.

**. Auto igniting:** Product is not selfigniting.

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

**. Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)

**. Density at 20 °C (68 °F):** 1.346 g/cm<sup>3</sup> (11.232 lbs/gal)

**. Solubility in / Miscibility with**

**Water:** Fully miscible.

**. Viscosity:**

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

**. Solvent content:**

<b>Organic solvents:</b>	1.4 %
<b>Water:</b>	>40 %
<b>VOC content:</b>	1.4 %

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

USA

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Reviewed on 07/29/2014

Trade name: COLORTEC C-41/ E-6 Negativ Kit BX Part 2

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### 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/vapors

### 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 internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- . **Carcinogenic categories**

- . **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- . **NTP (National Toxicology Program)**

None of the ingredients is listed.

- . **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 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 (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.

USA

(Contd. on page 6)

## Safety Data Sheet acc. to OSHA HCS

Printing date 07/29/2014

Reviewed on 07/29/2014

**Trade name: COLORTEC C-41/ E-6 Negativ Kit BX Part 2**

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### 13: Disposal considerations

**. 13.1 Waste treatment methods**

**. Recommendation:**

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

**. Uncleaned packagings:**

**. Recommendation:** Disposal must be made according to official regulations.

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

### 14: Transport information

**. 14.1 UN-Number**

**. DOT, ADR, ADN, IMDG, IATA** Void

**. 14.2 UN proper shipping name**

**. DOT, ADR, ADN, IMDG, IATA** Void

**. 14.3 Transport hazard class(es)**

**. DOT, ADR, ADN, IMDG, IATA**

**. Class** Void

**. 14.4 Packing group**

**. DOT, 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 of MARPOL73/78 and the IBC Code**

Not applicable.

**. UN "Model Regulation":**

-

### 15: Regulatory information

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

**. Sara**

**. Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

**. Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**. TSCA (Toxic Substances Control Act):**

7783-18-8 Ammonium thiosulphate

7732-18-5 water

7681-57-4 sodium metabisulphite (sodium disulphite)

7757-83-7 sodium sulphite

64-19-7 acetic acid

60-00-4 edetic acid (EDTA) / ethylenediamine-N,N-tetraacetic acid

3179-31-5 1,2,4-triazole-3-thiol

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## Safety Data Sheet acc. to OSHA HCS

Printing date 07/29/2014

Reviewed on 07/29/2014

**Trade name: COLORTEC C-41/ E-6 Negativ Kit BX Part 2**

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**. Proposition 65**

**. Chemicals known to cause cancer:**

None of the ingredients is listed.

**. Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**. Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**. Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**. Cancerogenity categories**

**. EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**. TLV (Threshold Limit Value established by ACGIH)**

7681-57-4 sodium metabisulphite (sodium disulphite)

A4

**. NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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

### 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

**. Date of preparation / last revision** 07/29/2014 / -

**. 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 Organization

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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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

USA



## Safety Data Sheet acc. to OSHA HCS

Printing date 07/29/2014

Reviewed on 07/29/2014

### 1: Identification

- . **1.1 Product identifier**
- . **Trade name:** COLORTEC C-41 Stabilisierbad STAB
- . **Article number:** 102228 STAB, 45544
- . **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) 40 521 45-296  
www.tetenal.com; E-mail: info@tetenal.com
- . **Information department:** Department environment and safety. E-Mail: info@tetenal.com
- . **1.4 Emergency telephone number:**  
Poison Information Centre Berlin/Germany: +49 (0) 30 - 30686 790 (English 24hours)

### 2: Hazard(s) 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, chemical-resistant gloves and skin protection.  
Wash thoroughly after handling. **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.



GHS05

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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

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



Irritant

May cause sensitisation by skin contact. Irritating to eyes and skin.

- . **Information concerning particular hazards for human and environment:**  
The product has to be labeled due to the calculation procedure of international guidelines.
- . **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

#### . 2.2 Label elements

- . **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

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**Trade name: COLORTEC C-41 Stabilisierbad STAB**

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**. Code letter and hazard designation of product:**



Xi Irritant

**. Hazard-determining components of labeling:**

Hexamethylenetetramine (methenamine)  
1,2-benzisothiazol-3(2H)-one

**. Risk phrases:**

May cause sensitisation by skin contact.  
Irritating to eyes and skin.

**. Safety phrases:**

Do not breathe vapour/spray.  
Avoid contact with skin.  
Wear suitable gloves.  
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
This material and its container must be disposed of as hazardous waste.

**. Classification system:**

**. NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 0  
Reactivity = 0

**. HMIS-ratings (scale 0 - 4)**



Health = 1  
Fire = 0  
Reactivity = 0

**. 2.3 Other hazards**

**. Results of PBT and vPvB assessment**

**. PBT:** Not applicable.  
**. vPvB:** Not applicable.

### 3: Composition/information on ingredients

**. 3.2 Chemical characterization: Mixtures**

**. Description:** Mixture of the substances listed below with nonhazardous additions.

**. Dangerous components:**

CAS: 68131-39-5	Alcohol ethoxylate	1-5%
CAS: 100-97-0 Index number: 612-101-00-2 RTECS: MN 4725000 Reg.nr.: 01-2119474895-20	Hexamethylenetetramine (methenamine)	1- 5%
CAS: 2634-33-5 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one	0.1- <1%

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### 4: First-aid measures

- . **4.1 Description of first aid measures**
- . **General information:** Immediately remove any clothing soiled by the product.
- . **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- . **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; immediately call for medical help.
- . **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.

### 5: Fire-fighting measures

- . **5.1 Extinguishing media**
- . **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **5.2 Special hazards arising from the substance or mixture**  
In certain fire conditions, traces of other toxic gases cannot be excluded.
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

### 6: Accidental release measures

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

### 7: Handling and storage

- . **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- . **Information about protection against explosions and fires:** Protect from heat.
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- . **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidizing agents.

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

### 8: Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **8.1 Control parameters**
- . **Components 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 that were valid during the creation were used as basis.
- . **8.2 Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
  - The usual precautionary measures for handling chemicals should be followed.
  - 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.
- . **Breathing equipment:** Ensure adequate ventilation
- . **Protection of hands:**



Protective gloves

Impervious gloves

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

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

- . **Material of gloves**

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

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

- . **Penetration time of glove material**

Glove material	breakthrough-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:**



Tightly sealed goggles

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. **Body protection:** Protective work clothing

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### 9: Physical and chemical properties

#### . 9.1 Information on basic physical and chemical properties

##### . General Information

##### . Appearance:

Form:	Fluid
Color:	Colorless
Odor:	Amine-like

. pH-value at 20 °C (68 °F): 9.7

##### . Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

. Flash point: Not applicable.

. Auto igniting: Product is not selfigniting.

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

. Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

. Density at 20 °C (68 °F): 1.017 g/cm<sup>3</sup> (8.487 lbs/gal)

##### . Solubility in / Miscibility with

Water: Fully miscible.

##### . Solvent content:

Organic solvents:	0.0 %
Water:	>914 %

. 9.2 Other information: No further relevant information available.

### 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/vapors

### 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: Strong irritant with the danger of severe eye injury.  
 . Sensitization: Sensitization possible through skin contact.

##### . Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

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Irritant

**. Carcinogenic categories**

**. IARC (International Agency for Research on Cancer)**

9003-39-8	Polyvinylpyrrolidone (PVP) / 2-Pyrrolidinone, 1-ethylenyl-, homopolymer	3
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**. NTP (National Toxicology Program)**

None of the ingredients is listed.

**. OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**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 (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.

**13: Disposal considerations**

**. 13.1 Waste treatment methods**

**. Recommendation:**

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

**. Uncleaned packagings:**

**. Recommendation:** Disposal must be made according to official regulations.

**14: Transport information**

**. 14.1 UN-Number**

**. DOT, ADR, ADN, IMDG, IATA** Void

**. 14.2 UN proper shipping name**

**. DOT, ADR, ADN, IMDG, IATA** Void

**. 14.3 Transport hazard class(es)**

**. DOT, ADR, ADN, IMDG, IATA**  
**. Class** Void

**. 14.4 Packing group**

**. DOT, ADR, IMDG, IATA** Void

**. 14.5 Environmental hazards:**

**. Marine pollutant:** No

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. **14.6 Special precautions for user** Not applicable.

. **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

. **UN "Model Regulation":** -

### 15: Regulatory information

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

. **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

. **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

. **TSCA (Toxic Substances Control Act):**

7732-18-5 water

100-97-0 Hexamethylenetetramine (methenamine)

37971-36-1 2-phosphonobutane-1,2,4-tricarboxylic acid (PBTC)

2634-33-5 1,2-benzisothiazol-3(2H)-one

. **Proposition 65**

. **Chemicals known to cause cancer:**

None of the ingredients is listed.

. **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

. **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

. **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

. **Carcinogeny categories**

. **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

. **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

. **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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

### 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

. **Date of preparation / last revision** 07/29/2014 / -

. **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)

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ICAO: International Civil Aviation Organization

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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

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

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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

USA