

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.03.2016

version no: 3

Revision: 30.03.2016

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

#### 1.1 Product identifier

Trade name: **C-41 / E-6 BL-S**  
**Bleach Starter**

Article number: 103333

#### 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

Starter for

Bleach bath for photographic use

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

TETENAL Europe GmbH

Schützenwall 31-35

D-22844 Norderstedt / Germany

Phone: +49 (0) 40 521 45-0; Fax: +49 (0) 40-52145-296

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

TETENAL Ltd.,

2 Meridian West, Meridian Business Park, Leicester LE19 1WX

Phone: 0116 - 289 3644; E-Mail: uk@tetenal.com; www.tetenaluk.com

Further information obtainable from: Department environment and safety. E-Mail: info@tetenal.com

1.4 Emergency telephone number: Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2 H319 Causes serious eye irritation.

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

Xi; Irritant

R36: Irritating to eyes.

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

##### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

##### Classification system:

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

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

##### Hazard pictograms



GHS07

Signal word Warning

##### Hazard statements

H319 Causes serious eye irritation.

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**. Precautionary statements**

- P280 Wear protective gloves / eye protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local regulations.

**. 2.3 Other hazards****. Results of PBT and vPvB assessment**

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

### SECTION 3: Composition/information on ingredients

**. 3.2 Chemical characterisation: Mixtures**

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

**. Dangerous components:**

CAS: 122-20-3	1,1',1''-nitritotripropan-2-ol /triisopropanolamine	>80%
EINECS: 204-528-4	Xi R36	
Index number: 603-097-00-3	Eye Irrit. 2, H319	
Reg.nr.: 01-2119475482-34		

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

### SECTION 4: First aid measures

**. 4.1 Description of first aid measures**

- . General information:** Immediately remove any clothing/shoes soiled by the product.  
**. After inhalation:** Supply fresh air; consult doctor in case of complaints.  
**. After skin contact:** Immediately rinse with water.  
**. After eye contact:** Rinse opened eye for several (15 min) under running water.  
**. After swallowing:**  
 Rinse out mouth and then drink plenty of water.  
 If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

**. 5.1 Extinguishing media**

**. Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

**. 5.2 Special hazards arising from the substance or mixture**

Nitrogen oxides (NO<sub>x</sub>)  
 Carbon monoxide (CO)

**. 5.3 Advice for firefighters**

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

### SECTION 6: Accidental release measures

**. 6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation

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**. 6.2 Environmental precautions:**

- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.

**. 6.3 Methods and material for containment and cleaning up:**

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

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

### SECTION 7: Handling and storage

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

**. Information about fire - and explosion protection:**

- Keep ignition sources away - Do not smoke.
- 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.

**. Further information about storage conditions:**

- Protect from heat and direct sunlight.
- Store under lock and key and out of the reach of children.
- Recommended storage temperature: 5-30 °C

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

### SECTION 8: Exposure controls/personal protection

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

**. 8.1 Control parameters**

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

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

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

**. 8.2 Exposure controls**

**. Personal protective equipment:**

**. General protective and hygienic measures:**

- The usual precautionary measures are to be adhered to when handling chemicals.
- Avoid contact with the eyes and skin.
- Do not inhale gases / fumes / aerosols.

**. Respiratory protection:** Ensure adequate ventilation

**. Protection of hands:**

- Impervious gloves

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

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

**. Material of gloves**

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

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**. 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

## SECTION 9: Physical and chemical properties

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

**. General Information**

**. Appearance:**

**Form:** Fluid

**Colour:** Clear

**. Odour:** Characteristic

**. pH-value at 20 °C:** 11

**. Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

**. Flash point:** 180 °C

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

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

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

**. Density at 20 °C:** ~1.12 g/cm<sup>3</sup>

**. Solubility in / Miscibility with water:**

Fully miscible.

**. Solvent content:**

**Organic solvents:** 85.0 %

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

## SECTION 10: Stability and reactivity

**. 10.1 Reactivity** No further relevant information available.

**. 10.2 Chemical stability**

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

**. 10.3 Possibility of hazardous reactions** No dangerous reactions known.

**. 10.4 Conditions to avoid** No further relevant information available.

**. 10.5 Incompatible materials:** No further relevant information available.

**. 10.6 Hazardous decomposition products:** Irritant gases/vapours

## SECTION 11: Toxicological information

**. 11.1 Information on toxicological effects**

**. Acute toxicity** Based on available data, the classification criteria are not met.

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**. LD/LC50 values relevant for classification:**

**122-20-3 1,1',1''-nitritotripropan-2-ol /triisopropanolamine**

Oral LD50 ~4000 mg/kg (rat)

**. Primary irritant effect:**

**. Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**. Serious eye damage/irritation**

Causes serious eye irritation.

**. Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**. Acute effects (acute toxicity, irritation and corrosivity)**

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

Irritant

**. CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**. Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**. Carcinogenicity** Based on available data, the classification criteria are not met.

**. Reproductive toxicity** Based on available data, the classification criteria are not met.

**. STOT-single exposure** Based on available data, the classification criteria are not met.

**. STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

**SECTION 12: Ecological information**

**. 12.1 Toxicity**

**. Aquatic toxicity:**

**122-20-3 1,1',1''-nitritotripropan-2-ol /triisopropanolamine**

LC50 96h: 3158 mg/l (Leuciscus leuciscus (Karpfenfisch))

**. 12.2 Persistence and degradability** No further relevant information available.

**. 12.3 Bioaccumulative potential** No further relevant information available.

**. 12.4 Mobility in soil** No further relevant information available.

**. Additional ecological information:**

**. General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

**. PBT:** Not applicable.

**. vPvB:** Not applicable.

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

**SECTION 13: Disposal considerations**

**. 13.1 Waste treatment methods**

**. Recommendation**

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

**. European waste catalogue**

07 07 99 wastes not otherwise specified

16 03 06 organic wastes other than those mentioned in 16 03 05

**. Uncleaned packaging:**

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

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

**SECTION 14: Transport information**

<b>. 14.1 UN-Number</b>	
<b>. ADR, ADN, IMDG, IATA</b>	Void
<b>. 14.2 UN proper shipping name</b>	
<b>. ADR</b>	Void
<b>. ADN, IMDG, IATA</b>	Void
<b>. 14.3 Transport hazard class(es)</b>	
<b>. ADR, ADN, IMDG, IATA</b>	
<b>. Class</b>	Void
<b>. 14.4 Packing group</b>	
<b>. 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 Marpol and the IBC Code</b>	Not applicable.
<b>. UN "Model Regulation":</b>	Void

**SECTION 15: Regulatory information**

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- . 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

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

**. Relevant phrases**

H319 Causes serious eye irritation.

R36 Irritating to eyes.

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

**. Abbreviations and acronyms:**

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

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

ICAO: International Civil Aviation Organisation

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

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
\* **Data compared to the previous version altered.**

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