


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

- 1.1 Product identifier**
- Trade name: **RA-4 BX-R Type 48 Part B Bleach Fix Replenisher**
  - Article number: 102617
  - Index number:
- 
- None of the ingredients is listed.
- UFI: TNS1-502U-F00N-GSQT
- 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 1847 GmbH  
Schützenwall 31-35  
D-22844 Norderstedt /Germany  
Tel.: +49 (0) 40 521 45-0; Fax: +49 (0)40-52145-296  
www.tetenal.com; E-mail: info@tetenal.com
  - Further information obtainable from: Department product safety. E-Mail: sida@tetenal.com
- 1.4 Emergency telephone number:**
- Poison Information Centre Germany: +49 (0) 30 - 30686 700 (English and German 24 hours)

## SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**
- Classification according to Regulation (EC) No 1272/2008  
The product is not classified, according to the CLP regulation.
- 
- 2.2 Label elements**
- Labelling according to Regulation (EC) No 1272/2008 Void
  - Hazard pictograms Void
  - Signal word Void
  - Hazard statements Void
  - Additional information:  
Safety data sheet available on request.
- 2.3 Other hazards**
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures**
- Description: Mixture of substances listed below and with nonhazardous additions.
  - Dangerous components:
- 
- |                           |  |       |
|---------------------------|--|-------|
| CAS: 10192-30-0           | Ammonium hydrogensulphite (Ammonium bisulphite)  | 5-10% |
| EINECS: 233-469-7         |  Eye Irrit. 2, H319 |       |
| Reg.nr.: 01-2119537321-49 |  |       |
- 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: Take affected persons out into the fresh air.

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 15.10.2020

version no: 7

Revision: 15.10.2020

**Trade name: RA-4 BX-R Type 48 Part B Bleach Fix Replenisher**

(Contd. of page 1)

- . **After inhalation:**  
Supply fresh air; consult doctor in case of complaints.  
Supply fresh air.
- . **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.
- . **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** No further relevant information available.
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- . **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- . **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- . **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling** No special measures required.
- . **Information about fire - and explosion protection:** No special measures required.
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** No special requirements.
- . **Information about storage in one common storage facility:**  
Store away from metals.  
Store away from foodstuffs.
- . **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Store under lock and key and with access restricted to technical experts or their assistants only.  
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.

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 15.10.2020

version no: 7

Revision: 15.10.2020

**Trade name: RA-4 BX-R Type 48 Part B Bleach Fix Replenisher**

(Contd. of page 2)

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

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

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

### 8.2 Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.  
Avoid contact with the eyes and skin.

#### Respiratory protection:

Not required.

Ensure adequate ventilation

#### Protection of hands:

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

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

#### Material of gloves

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

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

#### Penetration time of glove material

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:

<b>Form:</b>	Fluid
<b>Colour:</b>	Light yellow
<b>Odour:</b>	to sulfur dioxide
<b>Odour threshold:</b>	Not determined.

**pH-value at 20 °C:** 5-6

#### Change in condition

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	>100 °C

**Flash point:** Not applicable.

**Flammability (solid, gas):** Not applicable.

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 15.10.2020

version no: 7

Revision: 15.10.2020

**Trade name: RA-4 BX-R Type 48 Part B Bleach Fix Replenisher**

(Contd. of page 3)

<b>. Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>. Vapour pressure:</b>	Not determined.
<b>. Density at 20 °C:</b>	~1.3 g/cm <sup>3</sup>
<b>. Relative density</b>	Not determined.
<b>. Vapour density</b>	Not determined.
<b>. Evaporation rate</b>	Not determined.
<b>. Solubility in / Miscibility with water:</b>	Fully miscible.
<b>. Partition coefficient: n-octanol/water:</b>	Not determined.
<b>. Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>. Solvent content:</b>	
<b>Water:</b>	50-90 %
<b>VOC (EC)</b>	0.00 %
<b>Solids content:</b>	0.0 %
<b>. 9.2 Other information</b>	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:** Stable at environment temperature.
- . **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:** Carbon monoxide and carbon dioxide

### SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity** Based on available data, the classification criteria are not met.
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- . **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- . **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- . **Acute effects (acute toxicity, irritation and corrosivity)**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
- . **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.

(Contd. on page 5)

EN

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 15.10.2020

version no: 7

Revision: 15.10.2020

**Trade name: RA-4 BX-R Type 48 Part B Bleach Fix Replenisher**

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

(Contd. of page 4)

### SECTION 12: Ecological information

. **12.1 Toxicity**

. **Aquatic toxicity:** No further relevant information available.

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

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

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

. **Additional ecological information:**

. **General notes:**

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

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

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

. **PBT:** Not applicable.

. **vPvB:** Not applicable.

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

### SECTION 13: Disposal considerations

. **13.1 Waste treatment methods**

. **Recommendation**

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

. **European waste catalogue**

09 01 05 bleach solutions and bleach fixer solutions

. **Uncleaned packaging:**

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

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

### SECTION 14: Transport information

. **14.1 UN-Number**

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

. **14.2 UN proper shipping name**

. **ADR** Void

. **ADN, IMDG, IATA** Void

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

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

. **Class** Void

. **14.4 Packing group**

. **ADR, IMDG, IATA** Void

. **14.5 Environmental hazards:**

. **Marine pollutant:** No

. **14.6 Special precautions for user**

Not applicable.

. **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

. **UN "Model Regulation":**

Void

EN

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 15.10.2020

version no: 7

Revision: 15.10.2020

**Trade name: RA-4 BX-R Type 48 Part B Bleach Fix Replenisher**

(Contd. of page 5)

### SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Labelling according to Regulation (EC) No 1272/2008** GHS label elements
- . **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 65
- . **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.

. **Contact:** E: 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)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

- EN -