

## Safety Data Sheet according to (EC) No. 1907/2006

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

10x Clearance Buffer II (REF M-25-012); mixture

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

##### Recommended use:

Buffer for liquefaction of respiratory specimen / Laboratory chemical

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

##### Manufacturer/Supplier

miacom diagnostics GmbH

Merowingerplatz 1a  
40225 Düsseldorf  
Germany

**Email:** info@miacom-diagnostics.com

**Phone:** +49 (0) 211-30155795

#### 1.4 Emergency telephone number

United States: National Response Center - Tel. (1) 800 424 8802

Italy: National Fire Brigade Operational Centre for National Emergencies  
- Tel. 39 (0) 6 4812425 / 39(0) 64814695

United Kingdom: National Chemical Emergency Centre - Tel. (44) 01235 463060

Austria: Federal Alarm Centre Department of Civil Protection - Tel. (43) 1 53126 3800

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

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

Based on available data the classification criteria are not met

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

Based on available data not classified as dangerous

**2.2 Label elements**

The product does not need to be labeled in accordance with EC directives

**2.3 Other hazards**

None

**3. Composition/Information on ingredients****3.2 Mixtures**

Aqueous solution. No hazardous ingredients

**4. First-aid measures****4.1 Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician immediately.

**In case of skin contact /**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

No data available

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

No data available

**5. Fire-fighting measures**

Do not breathe smoke fumes. Cool surrounding containers with water spray. If possible, take container out of dangerous zone. Heating causes a rise in pressure, risk of bursting and explosion. Shut off sources of ignition. Beware of backfire. Stay on upwind side. In case of fire the product may form hazardous decomposition product such as ammonia and oxides of carbon and nitrogen.

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water (spray - not splash)

Extinguishing powder

Carbon dioxide

Fight large fire with alcohol resistant foam or water spray.

#### Extinguishing media which must not be used for safety reasons

No information available

### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Phosphorus oxides, carbon monoxide and carbon dioxide can be released

### 5.3 Advice for fire-fighters

#### Protective equipment:

When entering burning area: Wear self-contained breathing apparatus and special tightly sealed suit. Plastic fibres can be affected after longer direct exposure.

#### Additional information:

No information available

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove sources of ignition. Warn affected surroundings. The hazardous area may only be entered once suitable protective measures are implemented. Only then can the hazardous situation be removed. Wear respiratory protection, eye protection, hand protection and body protection (see chapter Personal Protection).

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Maybe a hazard to drinking water sources when very large quantities get into groundwater. Inform the responsible authorities.

### 6.3 Methods and materials for containment and cleaning up

Absorb any spilt liquid with an inert absorbent (e.g. diatomite, vermiculite, sand) and dispose of according to regulations. Keep in suitable, closed containers for disposal. Pump off larger quantities. Afterwards ventilate area and wash spill site.

### 6.4 Reference to their sections

See section 7 for information on safe handling and section 13 for information on disposal

## 7. Handling and storage

### 7.1 Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

Use in laboratories (see also section 1.2)

## 8. Exposure controls/personal protection

### 8.1 Control parameters

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

Not required

### 8.2 Exposure controls

#### Engineering measures (prevention of worker exposure):

Avoid contact with skin, eyes and clothing. Change contaminated clothes. After work wash hands with water and mild soap. The employer shall assess the working conditions and, if there is any risk to the safety or health and any effects on the pregnancy or breastfeeding of workers, take the necessary measures to adjust the working conditions (Directive 92/85/EEC).

#### Personal protective equipment

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Hand protection



The selected protective gloves have to satisfy the specifications of EU Directive

89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Use protective gloves. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well-ventilated location. Pay attention to skin care. Textile or leather gloves are completely unsuitable. The following materials are suitable for protective gloves (Permeation time  $\geq$  8 hours): Natural rubber/ Natural latex - NR (0,5 mm) (use non-powdered and allergen free products)

Polychloroprene - CR (0,5 mm)

Nitrile rubber/Nitrile latex - NBR (0,35 mm)

Butyl rubber - Butyl (0,5 mm)

Fluoro carbon rubber - FKM (0,4 mm)

Polyvinyl chloride - PVC (0,5 mm)

The times listed are suggested by measurements taken at 22 degree C and constant contact. Temperatures raised by warmed substances, body heat, etc. and a weakening of the effective layer thickness caused by expansion can lead to a significantly shorter breakthrough time. In case of doubt contacts the gloves' manufacturer. A 1.5-times increase / decrease in the layer thickness doubles / halves the breakthrough time. This data only applies to the pure substance. Transferred to mixtures of substances, these figures should only be taken as an aid to orientation.

### Eye protection



Safety glasses with side-shields conforming to EN166. Wear glasses with side protection.

### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place. The protection clothing should be solvent resistant.

### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

If at risk of contamination, foods, beverages and other articles of consumption must not be stored or consumed at the work areas. Special areas are to be designated for these purposes. Avoid contact with skin. Do not allow the substance or its solution to dry on the skin. In case of contact wash skin. Avoid contact with eyes. In case of contact rinse the affected eye(s). Avoid inhalation of vapour. In NO case, drink alcohol. Avoid contact with clothing. Contaminated clothes must be exchanged and cleaned carefully. Provide washrooms with showers and if possible rooms with separate storage for street clothing and work clothing. Take care of personal hygiene.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Form** liquid, clear

**Colour** colourless

**Odour** odourless

**Odour threshold** No data available

**pH** 9.0

**Melting point** No data available

**Boiling point** Not applicable

**Flash point** Not applicable

**Ignition temperature** No data available

**Lower explosion limit** No data available

**Upper explosion limit** No data available

**Vapour pressure** No data available

**Density** No data available

**Water solubility** No data available

**Solubility in other solvents** No data available

**Partition coefficient: n-octanol/water** No data available

**Autoignition temperature** No data available

**Decomposition temperature** No data available

**Viscosity** No data available

**Explosive properties** No data available

**Oxidizing properties** No data available

### 9.2 Other information

No further data available

## 10. Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available; Strong heat

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

None under normal use conditions.

## 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:**

Product does not present an acute toxicity hazard based on known or supplied information

**Oral:** Not classified

**Skin:** Not classified

**Inhalation:** Not classified

**Skin corrosion/irritation** No data available

**Serious eye damage/eye irritation** No data available

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity:** No data available

**Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Potential health effects:** No data available

### 11.2 Additional information

No information available

## 12. Ecological information

### 12.1 Toxicity

Contains no substances known to be hazardous to the aquatic and terrestrial environment or that are not degradable in waste water treatment plants

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No further data available

## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Products

Dispose of in accordance with local regulations

#### Contaminated packaging

Empty containers should be taken to local recyclers for disposal

## 14. Transport information

### 14.1 UN number

ADR/RID – ADN - IMDG - ICAO/IATA: Not regulated

### 14.2 UN proper shipping name

ADR/RID – ADN - IMDG - ICAO/IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID – ADN - IMDG - ICAO/IATA: Not regulated

### 14.4 Packaging group

ADR/RID – ADN - IMDG - ICAO/IATA: Not regulated

### 14.5 Environmental hazards

ADR/RID – ADN - IMDG - ICAO/IATA: No hazards identified

### 14.6 Special precautions for user

ADR/RID – ADN - IMDG - ICAO/IATA: No special precautions required

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

ADR/RID – ADN - IMDG - ICAO/IATA: Not applicable, packaged goods



## 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH) as amended by Regulation (EU) No. 453/2010 with respect to SDSs and complies with the requirements of Regulation (EC) No 1272/2008 (CLP).

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

**National regulations:** No data available

**Information about limitation of use:** No data available

**Breakdown regulations:** No data available

**Water hazard class:** class 1 (self-assessment) – slightly hazardous to water

### 15.2 Chemical Safety Assessment

A chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## 16. Other information

### Special training:

Only for professional users.

No special training is required. However, the user should be well instructed in the execution of his tasks, be familiar with this Safety Data Sheet and have normal training in the use of personal equipment.

### Abbreviations:

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

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

IMDG: International Maritime Code for Dangerous Goods / IATA: International Air Transport Association

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

ICAO: International Civil Aviation Organization

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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LC50: Lethal concentration, 50 percent / LD50: Lethal dose, 50 percent

### Disclaimer

This information is based on our present knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.