

5X Base Buffer Solution**5BBS*****SECTION 1 Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Identification of the product : Sterile Stock Solution
Product code(s) : 5BBS-1000
Trade name(s) : 5X Base Buffer Solution

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

1.2.1 Relevant identified uses : For research purposes only

1.2.2 Uses advised against No additional information available

1.3. Details of the supplier of the safety data sheet

Company identification : Formedium Ltd.
King's Lynn, England, PE31 6DJ
Tel: +44(0)1485 609069
Web: www.Formedium.com
E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency telephone number : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

SECTION 2 Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Not regulated

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008**

Hazards pictograms code : None
Precautionary statements : None

2.3 Other hazards

None under normal conditions.

5X Base Buffer Solution**5BBS*****SECTION 3 Composition/information on ingredients**

Components : This product is not classified as hazardous.

5X Base Buffer Solution
Sodium Chloride
Sodium Hydroxide
Glycerol

SECTION 4 First aid measures**4.1. Description of first aid measures**

Inhalation : Move victim to fresh air. If breathing is difficult give oxygen. Obtain medical attention.

Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

Ingestion : Do not induce vomiting. Get medical attention if symptoms occur.

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

Symptoms and effects, both acute and delayed. : No data available.

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

Medical attention and special treatment needed. : Treat symptomatically

SECTION 5 Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media : Water spray
CO2

5.2. Special hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition.

5.3. Advice for firefighters

Protection against fire : Wear self-contained breathing apparatus pressure-demand and full protective gear. Thermal decomposition can lead to release of irritating gases and vapours.

5X Base Buffer Solution**5BBS*****SECTION 6 Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Technical measures : Ensure adequate ventilation. Use personal protective equipment. Avoid contact with the skin and eyes.

6.2. Environmental precautions

Environmental precautions : Should not be released into the environment. See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7 Handling and storage**7.1. Precautions for safe handling**

General : Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on the skin, or on clothing. Avoid ingestion and inhalation.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool, well-ventilated area. Keep out of light. Keep properly labelled containers tightly closed.

7.3. Specific end use(s)

Specific end use(s) : For research purposes only

SECTION 8 Exposure controls/personal protection**8.1. Control parameters**

No additional information available.

8.2. Exposure controls

- **Eye / face protection** : Wear appropriate protective eyeglasses or chemical safety goggles.
- **Skin and body protection** : Wear suitable protective clothing and gloves to prevent skin exposure.
- **Respiratory protection** : No protective equipment is required under normal use conditions.
- **Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 Physical and chemical properties**9.1. Information on basic physical and chemical properties.**

- **Appearance**

Physical state at 20°C : Liquid
Appearance : Colourless
Odour : No data available.

5X Base Buffer Solution**5BBS*****SECTION 9 Physical and chemical properties (continued)**

Odour threshold	: Not established.
pH	: 7.5 – 8.0
Melting point (°C)	: No data available.
Boiling point (°C)	: > 100°C / > 212°F.
Flash point (°C)	: No data available.
Evaporation rate	: No data available.
Flammability (solid / gas)	: No data available.
Explosion limits	: No data available.
Vapour pressure	: No data available.
Relative vapour density (air = 1)	: > 1.00
Relative Density	: No data available.
Solubility	: Soluble in water.
Partition coefficient : n-octanol / water	: No data available.
Auto ignition temperature (°C)	: No data available.
Thermal decomposition (°C)	: No data available.
Viscosity	: No data available.

9.2. Other information

No additional information available

SECTION 10 Stability and reactivity**10.1. Reactivity**

Stable under normal conditions, handling and use.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions**Hazardous reactions** : No data available.**10.4. Conditions to avoid**

Incompatible products.

10.5. Incompatible materials**Materials to avoid** : Strong oxidizing agents.**10.6. Hazardous decomposition products****Hazardous decomposition products** : None under normal use conditions.

5X Base Buffer Solution**5BBS*****SECTION 11 Toxicological information****11.1. Information on toxicological effects****Acute toxicity****Oral LD50** : > 2000 mg/Kg**Dermal LD50** : > 2000 mg/Kg**Vapour LC50** : > 20 mg/L**11.2. Additional Information****Endocrine disrupting properties :**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12 Ecological information**12.1. Ecotoxicity**

Do not empty into drains.

12.2. Persistence and degradability

Miscible with water. Persistence is unlikely based on information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility

Will likely be mobile in the environment due to its water solubility.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

No data available.

Ecological effects information : No data available.

12.7. Endocrine disrupting properties

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

5X Base Buffer Solution**5BBS*****SECTION 13 Disposal considerations****13.1. Waste treatment methods****General**

Avoid release to the environment.
Dispose in a safe manner in accordance with local / national regulations.

SECTION 14 Transport information**14.1. UN Number**

Not applicable

General information : Not classified as dangerous in the meaning of transport regulations.**14.2. UN Proper shipping name**

Not applicable.

14.3. Transport Hazard Class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable

SECTION 15 Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.
Ensure all national / local regulations are observed.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 Other information**Further information**

: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision

: Complete SDS revision

End of document