

MATERIAL SAFETY DATA SHEET

6X BX/ Loading buffer

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. PRODUCT DETAILS

Trade Name: 6X BX/ Loading buffer

Catalog Number: L030

1.2. COMPANY DETAILS

Supplier: Canvax Reagents S.L., Luis de Mercado St. 19, Boecillo Technological Park, Valladolid (Spain)

1.3. EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: 900-868538 (CHEMTREC España) +(34)-931768545 (CHEMTRECinternacional)

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (67/548/CEE) or (1999/45/CE): Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2. LABEL ELEMENTS

Not classified, Labelling according Regulation (EC) No 1272/2008.

2.3. PREVENTIVE ADVICE

P280 Wear protective gloves/protective clothing/goggles/face shield.

2.4. OTHER HAZARDS

The product contains **SUBTILISINE**.

This substance is not classified as PBT or vPvB according to current EU criteria.

3. CHEMICAL CHARACTERIZATION

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to (67/548/CEE) or (199/45/CE)
Subtilisine	60-00-4	200-449-4	01-2119480434-38 607-429-00-8	>= 1 - < 10 %	H319

4. FIRST AID MEASURES

4.1. DESCRIPTION OF DIRTS AID MEASURES

Inhalation: Remove affected person immediately to fresh air.

Ingestion: After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Skin contact: In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with



MATERIAL SAFETY DATA SHEET

6X BX/ Loading buffer

water/ shower.

Eye contact: After eye contact: rinse out with plenty of water. Remove contact lenses.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Non-specific recommendations. In case of doubt, seek medical attention immediately.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media:

Water Foam Carbon dioxide (CO₂) Dry powder.

Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Carbon oxides

Nitrogen oxides (NO_x)

Mixture with combustible ingredients.

Development of hazardous combustion gases or vapours possible in the event of fire.

Risk of dust explosion.

5.3. ADVICE FOR FIRE FIGHTERS

In the event of fire, wear self-contained breathing apparatus.

5.4. FURTHER INFORMATION

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2. ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP



MATERIAL SAFETY DATA SHEET

6X BX/ Loading buffer

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

6.4. REFERENCE TO OTHER SECTIONS

For disposal: see section 13

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

For precautions see section 2.2.

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Storage conditions

Tightly closed.

Store at 4°C.

7.3. SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Ingredients with workplace control parameters

8.2. EXPOSURE CONTROLS

Special protective equipment



Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

Hand protection: It is recommended that gloves be made of the following materials: Nitrile rubber.

Other skin and body protection: Wear rubber apron. Wear rubber footwear.

Respiratory protection: required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES



MATERIAL SAFETY DATA SHEET

6X BX/ Loading buffer

Appearance: liquid.

Odor: No data available

Solubility(ies): Soluble in water, at 20 °C soluble.

9.2. OTHER INFORMATION

Not determinated.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

No data available

10.2. CHEMICAL STABILITY

Stable at normal room temperature and when used as recommended.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No data available

10.4. CONDITIONS TO AVOID

No information available

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Inhalation: No data available

Ingestion: No data available

Skin contact: No data available

Eye contact: No data available

Components: Ethylenediaminetetraacetic acid

- Acute toxicity: LD50 Oral - Rat - male and female - 4.500 mg/kg
- Inhalation: No data available
- Skin corrosion/irritation
- Skin - Rabbit
- Serious eye damage/eye irritation
- Respiratory or skin sensitization



MATERIAL SAFETY DATA SHEET

6X BX/ Loading buffer

12. ECOLOGICAL INFORMATION

Ecotoxicity: The components of the product are not classified as hazardous to the environment. Large or frequent spills may have harmful effects on the environment.

12.1. TOXICITY

Mixture

No data available

12.2. PERSISTENCE AND DEGRADABILITY

No data available

12.3. BIOACCUMULATION POTENTIAL

No data available

12.4. MOBILITY IN THE SOIL

The product is soluble in water.

12.5. PBT AND vPvBm ASSESSMENT RESULTS

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. OTHER ADVERSE EFFECTS

No data available

Components: Ethylenediaminetetraacetic acid

Toxicity to fish static test LC50 - *Lepomis macrochirus* (Bluegill sunfish) - 41 mg/l - 96 h

Toxicity to daphnia and other aquatic static test EC50 - *Daphnia magna* (Water flea) - 625 mg/l - 24h

13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

General information: Waste should be treated as hazardous waste. Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods: Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

14. TRANSPORT INFORMATION

14.1. UN-NUMBER

No information required.

14.2. UN PROPER SHIPPING NAME

No information required.

14.3. TRANSPORT HAZARD CLASS(ES)

No information required.



MATERIAL SAFETY DATA SHEET

6X BX/ Loading buffer

14.4. PACKAGING GROUP

No information required

14.5. ENVIRONMENTAL HAZARDS

Hazardous pollutant substance/marine pollutant: No.

14.6. SPECIAL PRECAUTIONS FOR USER

No information required.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL73/78 AND THE IBC CODE

No information required.

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

National Provisions: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU Legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (as amended).

Guidance: CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

Hazard Classification for water: WGK 2

15.2. CHEMICAL SAFETY ASSESSMENT

Any chemical safety assessment has been carried out.

16. OTHER INFORMATION

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Users should make independent decisions regarding completeness of the information based on all sources available.

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.

Canvax Reagents S.L. shall not be held liable for any damage resulting from handling or from contact with the above product. See our website for our terms and conditions of sales.

