

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
(amended by Regulation (EU) 2020/878)

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### FX Buffer, 10x

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

##### **1.1. Product identifier**

**Product name** FX Buffer, 10x

**Product code** -

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

**Use of the Substance/Mixture** No information available.

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

**Company/Undertaking Identification** SOPHiA GENETICS SA  
La Pièce 12  
CH-1180 Rolle  
Switzerland  
+41 21 694 10 60  
<http://www.sophiagenetics.com>

**1.4. Emergency telephone number** local: 145 (Tox Info Suisse)  
international: +41 44 251 51 51

**Revision date** 24.04.2025

**Version** GHS 2

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008**

Acute toxicity, oral, Cat. 3, H301  
Specific target organ toxicity (single exposure, oral), Cat. 2, H371  
Hazardous to the aquatic environment, chronic, Cat. 3, H412

**Additional information**

For the full text of the phrases mentioned in this Section, see Section 16.

### 2.2. Label elements



**Signal Word**

Danger

**Hazard Statements**

H301: Toxic if swallowed.  
H371: May cause damage to organs if swallowed.  
H412: Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P264: Wash face, hands and any exposed skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P273: Avoid release to the environment.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor/physician.  
P330: Rinse mouth.

**Supplemental information**

None.

**Product identifier**

Tetramethylammonium chloride, CAS-No. 75-57-0, EC-No. 200-880-8

### 2.3. Other hazards

None known.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Components	Weight %	CLP Classification	Product identifier
Tetramethylammonium chloride	9,9%	Acute Tox. 2 H300, Acute Tox. 3 H311, Skin Irrit. 2 H315, STOT SE 1 H370o (Central nervous system), Aquatic Chronic 2 H411	CAS-No.: 75-57-0 EC-No.: 200-880-8

For the full text of the phrases mentioned in this Section, see Section 16.

**Hazardous impurities**

None known.

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## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

<b>Inhalation</b>	Consult a physician for severe cases. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
<b>Eye contact</b>	If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Protect unharmed eye.
<b>Ingestion</b>	Immediately give plenty of water (if possible charcoal slurry). Obtain medical attention.

<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Get medical advice/ attention if you feel unwell. Most important symptoms: Erythema. Symptoms of poisoning may only appear several hours later.
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<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	None known.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.
<b>Unsuitable extinguishing media</b>	High volume water jet.

<b>5.2. Special hazards arising from the substance or mixture</b>	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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### **5.3. Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. Complete suit protecting against chemicals.
<b>Specific methods</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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## **SECTION 6: Accidental release measures**

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

<b>For non-emergency personnel</b>	Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust.
<b>For emergency responders</b>	Use personal protective equipment. Do not breathe vapours/dust. Immediately evacuate personnel to safe areas. Ventilate the area.

<b>6.2. Environmental precautions</b>	Do not flush into surface water or sanitary sewer system. Contain spillage, and then collect with non-combustible absorbent material, (e.g. universal binder, sand, diatomaceous earth, vermiculite). Advise water authority if spillage has entered water course or drainage system.
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<b>6.3. Methods and material for containment and cleaning up</b>	Small quantities: Wipe up with adsorbent material (e.g. cloth, fleece). Large quantities: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable and closed containers for disposal (Plastic container of HDPE).
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<b>6.4. Reference to other sections</b>	See chapter 8 and 13.
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## **SECTION 7: Handling and storage**

<b>7.1. Precautions for safe handling</b>	Wear personal protective equipment. Avoid contact with skin and eyes. Plan first aid action before beginning work with this product. Do not breathe vapours/dust.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store in a place accessible by authorized persons only. Keep container tightly closed. Store in original container.
<b>7.3. Specific end use(s)</b>	No information available.

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## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

<b>Exposure limit(s)</b>	No data is available on the product itself.
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### **8.2. Exposure controls**

<b>Appropriate engineering controls</b>	Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately.
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## Personal protection equipment

<i>Respiratory protection</i>	No special protective equipment required.
<i>Hand protection</i>	Gloves made of Nitril. Break through time: > 4 h. Minimum layer thickness: 0.11mm. The selected protective gloves have to satisfy the specifications of Regulation (EU) No. 2016/425 and the standard EN 374 derived from it.
<i>Eye protection</i>	Safety glasses with side-shields conforming to EN166.
<i>Skin and body protection</i>	Long sleeved clothing.
<i>Thermal hazards</i>	No special measures required.
<b>Environmental exposure controls</b>	Prevent product from entering surface water or sewage.

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## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Odorless.
<b>Melting point/ freezing point:</b>	Not determined.
<b>Boiling point or initial boiling point / range:</b>	Not determined.
<b>Flammability:</b>	non-flammable
<b>Lower and upper explosion limit:</b>	Not determined.
<b>Flash point:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>pH:</b>	Not applicable.
<b>Kinematic viscosity:</b>	Not determined.
<b>Solubility:</b>	miscible (Water)
<b>Partition coefficient n-octanol/water (log value):</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density:</b>	Not determined.
<b>Relative vapour density:</b>	Not determined.
<b>Particle characteristics:</b>	Not applicable.

### 9.2. Other information

<b>9.2.1 Information with regard to physical hazard classes</b>	No information available.
<b>9.2.2 Other safety characteristics</b>	No information available.

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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	No reactivity hazard.
<b>10.2. Chemical stability</b>	No decomposition if used as directed.

<b>10.3. Possibility of hazardous reactions</b>	No information available.
<b>10.4. Conditions to avoid</b>	Burning produces obnoxious and toxic fumes.
<b>10.5. Incompatible materials</b>	Strong acids and strong bases. Oxidizing agents.
<b>10.6. Hazardous decomposition products</b>	None under normal use.

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

<b>Acute toxicity</b>	Toxic if swallowed. <b>Tetramethylammonium chloride (CAS 75-57-0)</b> Dermal LD50 Rabbit 200 - 500 mg/kg (ECHA_API) Oral LD50 Rat = 50 mg/kg (NLM_CIP)
<b>Skin corrosion/irritation</b>	Negligible.
<b>Serious eye damage/eye irritation</b>	Contact with eyes may cause irritation.
<b>Respiratory or skin sensitisation</b>	None.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Single exposure</b>	May cause damage to organs (Central nervous system) if swallowed.
<b>Specific target organ toxicity - Repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	No data available.
<b>Human experience</b>	No data available.

### **11.2. Information on other hazards**

<b>Endocrine disrupting properties</b>	No data available.
<b>Other information</b>	No data available.

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## **SECTION 12: Ecological information**

<b>12.1. Toxicity</b>	Harmful to aquatic life with long lasting effects.
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**Tetramethylammonium chloride (CAS 75-57-0)**Ecotoxicity - Freshwater Fish -  
Acute Toxicity DataLC50 96 h Pimephales promelas 431 - 495 mg/L [flow-through]  
(EPA)**12.2. Persistence and  
degradability**Neutralization is normally necessary before waste water is  
discharged into water treatment plants. Not readily biodegradable.**12.3. Bioaccumulative potential**

The product may be accumulated in organisms.

**12.4. Mobility in soil**

No data available.

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

No information available.

**12.6. Endocrine disrupting  
properties**

No information available.

**12.7. Other adverse effects**

No information available.

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste from residues / unused  
products**

Dispose of in accordance with local regulations.

**Contaminated packaging**Dispose of as unused product. Offer rinsed packaging material to  
local recycling facilities.

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**SECTION 14: Transport information****14.1. UN number or ID number**

UN 2810

**14.2. UN proper shipping name**TOXIC LIQUID, ORGANIC, N.O.S. (Tetramethylammonium  
chloride)**14.3. Transport hazard class(es)**

6.1

**14.4. Packing group**

III

**14.5. Environmental hazards**

Marine pollutant: No.

**14.6. Special precautions for  
user**

Not applicable.

**14.7. Maritime transport in bulk  
according to IMO instruments**

Not applicable.

## UN Model Regulations

### ADR/RID

UN 2810.  
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.  
(Tetramethylammonium chloride).  
Class 6.1.  
Packing group III.  
ADR/RID-Labels 6.1.  
Classification code T1.  
Hazard identification no. 60.  
Limited quantity 5 L.  
Excepted quantity E1.  
Transport category 2.  
Tunnel restriction code (E).

### IMDG

UN 2810.  
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.  
(Tetramethylammonium chloride).  
Class 6.1.  
Packing group III.  
IMDG-Labels 6.1.  
Limited quantity 5 L.  
Excepted quantity E1.  
EmS F-A, S-A.  
Marine pollutant: No.

### IATA

UN 2810.  
Proper shipping name: Toxic liquid, organic, n.o.s.  
(Tetramethylammonium chloride).  
Class 6.1.  
Packing group III.  
IATA label 6.1.  
Packing instruction (passenger aircraft): 655 (60 L).  
Packing instruction (LQ): Y642 (2 L).  
Packing instruction (cargo aircraft): 663 (220 L).

### Inland navigation ADN

UN 2810.  
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.  
(Tetramethylammonium chloride).  
Class 6.1.  
Packing group III.  
ADN labels 6.1.  
Classification code T1.  
Limited quantity 5 L.  
Excepted quantity E1.

### Further Information

None.

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## SECTION 15: Regulatory information

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



## Regulatory Information

Take note of Dir 94/33/EC on the protection of young people at work.  
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.  
Take note of the Swiss regulation on maternity protection (SR 822.111.52).  
Youth Employment Protection Ordinance (ArGV 5, SR 822.115):  
Adolescents up to the age of 18 may only come into contact with or be exposed to this product at their work, if this is provided for in the respective education regulation to achieve their educational goals and the prerequisites of the education plan are fulfilled. Young people who are not in basic vocational training are not allowed to work with this product.  
Water contaminating class (WGK Germany) = 1.  
Storage class 6.1.

### Tetramethylammonium chloride (CAS 75-57-0)

EU - REACH (1907/2006) - List of Registered Intermediates Present ([200-880-8])

EU - REACH (1907/2006) - List of Registered Substances Present

**15.2. Chemical safety assessment** Not required.

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## SECTION 16: Other information

**Key or legend to abbreviations and acronyms** CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)

**Key literature references and sources for data** Sources of key data used to compile the Safety Data Sheet: REACH, ECHA.

**Classification procedure** Classification according to Regulation (EC) No. 1272/2008.

**Full text of phrases referred to under sections 2 and 3**  
H300: Fatal if swallowed.  
H301: Toxic if swallowed.  
H311: Toxic in contact with skin.  
H315: Causes skin irritation.  
H370: Causes damage to organs if swallowed.  
H371: May cause damage to organs if swallowed.  
H411: Toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long lasting effects.

**Further information** Take notice of the directions of use on the label.

**Instructions for use** Restricted to professional users.

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.



## Document Approvals

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