



A Sysmex Group Company

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US OSHA HCS 2024

Issuing Date 27-Jan-2026

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Revision Number 1

## 1. Identification

### Product identifier

Product Name Step 1: Reaction Buffer

### Other means of identification

Product Code(s) 770100-24/96, 770500-24/96, 770510-24/96 Universal Library Preparation Kit. 500070, 500073, 500084, 500085, 570074-16/48 SureSeq NGS Library Preparation Kit. Complete Workflow Solutions (Universal)-78000\*-24/96, 78010\*-24/96, 780126-48, 780127-24/96, 79000\*-24/96, 79010\*-24/96, 890001-24/96

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use Analytical reagent  
For research use only

Restrictions on use None known

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

#### **Supplier Address**

Oxford Gene Technology Inc.  
(North America office)  
520 White Plains Road, Suite 500  
Tarrytown, NY 10591  
USA  
914 467 5285

#### **Manufacturer Address**

Oxford Gene Technology  
Unit 5  
4A Oxford Technology Park  
Kidlington  
OX5 1GN, United Kingdom  
+44 (0)1865 856800  
<http://www.ogt.com>

E-mail [support@ogt.com](mailto:support@ogt.com)

### Emergency telephone number

Emergency telephone 914 467 5285

## 2. Hazard(s) identification

### Classification of the substance or mixture

|                                   |             |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
|-----------------------------------|-------------|

### Hazards not otherwise classified (HNOC)

Not applicable.

### Label elements

Warning

**Hazard statements**

Causes serious eye irritation.

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**Hazards classified under paragraph (d)(1)(ii) of 1910.1200**

No information available.

**Other information**

Contains a known or suspected endocrine disruptor. Causes mild skin irritation. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

**3. Composition/information on ingredients****Substance**

Not applicable.

**Mixture**

| Chemical name | CAS No.   | Weight-% | Trade secret |
|---------------|-----------|----------|--------------|
| Triton X-100  | 9002-93-1 | 0.1 - 1  | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

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

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin contact**

Wash with plenty of water.

**Ingestion**

Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.

**Effects of Exposure** None known.

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

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical** No information available.

**Hazardous combustion products** Carbon oxides.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Wear personal protective equipment. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

## **8. Exposure controls/personal protection**

**Control Parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Handling of larger amounts: Wear protective eye glasses for protection against liquid splashes. Wear safety glasses with side shields (or goggles).

**Hand protection** To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

## **9. Physical and chemical properties**

**Information on basic physical and chemical properties**

**Appearance**  
**Physical state** Liquid  
**Color** Clear  
**Odor (includes odor threshold)** Slight

| <b><u>Property</u></b>                                           | <b><u>Values</u></b> | <b><u>Remarks • Method</u></b> |
|------------------------------------------------------------------|----------------------|--------------------------------|
| <b>Melting point / freezing point</b>                            |                      | No data available              |
| <b>Boiling point (or initial boiling point or boiling range)</b> |                      | No data available              |
| <b>Flammability</b>                                              |                      | No data available              |
| <b>Flammability Limit in Air</b>                                 |                      |                                |
| Upper flammability or explosive limits                           |                      | Not applicable                 |
| Lower flammability or explosive limits                           |                      | Not applicable                 |
| <b>Flash point</b>                                               |                      | No data available              |
| <b>Autoignition temperature</b>                                  |                      | No data available              |
| <b>Decomposition temperature</b>                                 |                      | No data available              |
| SADT (°C)                                                        |                      | No data available              |

|                                                   |                          |                   |
|---------------------------------------------------|--------------------------|-------------------|
| pH                                                | 7.5                      |                   |
| pH (as aqueous solution)                          |                          | No data available |
| Kinematic viscosity                               |                          | No data available |
| Dynamic viscosity                                 |                          | No data available |
| Solubility                                        |                          | No data available |
| Water solubility                                  |                          |                   |
| Partition coefficient n-octanol/water (log value) |                          | No data available |
| Vapor pressure (includes evaporation rate)        |                          | No data available |
| Evaporation rate                                  |                          | No data available |
| Density and/or relative density                   |                          | No data available |
| Bulk density                                      |                          | No data available |
| Liquid Density                                    |                          | No data available |
| Relative vapor density                            |                          | No data available |
| Particle characteristics                          |                          |                   |
| Particle Size                                     |                          | No data available |
| Particle Size Distribution                        |                          | No data available |
| <b>Other information</b>                          |                          |                   |
| Molecular weight                                  | No information available |                   |
| VOC content                                       | No information available |                   |
| Softening point                                   | No information available |                   |

**Information with regard to physical hazard classes****Explosives**

Explosive properties Not an explosive

Oxidizing properties Not an oxidizer

**10. Stability and reactivity**

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Reactivity                         | None under normal use conditions.         |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | None known based on information supplied. |
| Incompatible materials             | None known based on information supplied. |
| Hazardous decomposition products   | None known based on information supplied. |

**11. Toxicological information****Information on likely routes of exposure****Product Information**

|              |                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.                                                  |
| Eye contact  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| Skin contact | Specific test data for the substance or mixture is not available. Prolonged contact may cause redness and irritation. Causes mild skin irritation.            |
| Ingestion    | Specific test data for the substance or mixture is not available. Ingestion may cause                                                                         |

gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.

**Acute toxicity** No information available.

#### Numerical measures of toxicity

The following ATE values have been calculated for the mixture:

ATEmix (oral) 10,800.00 mg/kg

#### Component Information

| Chemical name             | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|---------------------------|----------------------|-------------|-----------------|
| Triton X-100<br>9002-93-1 | = 1800 mg/kg ( Rat ) | -           | -               |

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes mild skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

## **12. Ecological information**

**Ecotoxicity** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| <b><u>Mobility in soil</u></b>                | No information available.                          |
| <b><u>Other adverse effects</u></b>           | Contains a known or suspected endocrine disruptor. |
| <b><u>Endocrine disrupting properties</u></b> | Contains a known or suspected endocrine disruptor. |

### 13. Disposal considerations

#### **Disposal methods**

|                                                   |                                                                             |
|---------------------------------------------------|-----------------------------------------------------------------------------|
| <b><u>Waste from residues/unused products</u></b> | Dispose of waste product or used containers according to local regulations. |
| <b><u>Contaminated packaging</u></b>              | Do not reuse empty containers.                                              |

### 14. Transport information

|                    |               |
|--------------------|---------------|
| <b><u>DOT</u></b>  | Not regulated |
| <b><u>IATA</u></b> | Not regulated |
| <b><u>IMDG</u></b> | Not regulated |

### 15. Regulatory information

#### **International Inventories**

Contact supplier for inventory compliance status

#### **US Federal Regulations**

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

##### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

##### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

##### **CAA (Clean Air Act)**

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

##### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations.

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**16. Other information**

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> - |

**Key or legend to abbreviations and acronyms used in the safety data sheet**

*List may include phrases which are not applicable to this product*

|         |                                                                                                     |
|---------|-----------------------------------------------------------------------------------------------------|
| ACGIH   | American Conference of Governmental Industrial Hygienists                                           |
| ADN     | Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)     |
| ADR     | Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)                 |
| AIIC    | Australian Inventory of Industrial Chemicals                                                        |
| ATE     | Acute Toxicity Estimate                                                                             |
| ASTM    | American Society for the Testing of Materials                                                       |
| bar     | Biological Reference Values for Chemical Compounds in the Work Area                                 |
| BAT     | Biological tolerance values for occupational exposure                                               |
| BEL     | Biological exposure limits                                                                          |
| bw      | Body weight                                                                                         |
| Ceiling | Maximum limit value                                                                                 |
| CMR     | Carcinogen, Mutagen or Reproductive Toxicant                                                        |
| DOT     | Department of Transportation (United States)                                                        |
| DSL     | Domestic Substances List (Canada)                                                                   |
| EmS     | Emergency Schedule                                                                                  |
| ENCS    | Existing and New Chemical Substances (Japan)                                                        |
| EPA     | U.S. Environmental Protection Agency                                                                |
| GHS     | Globally Harmonized System                                                                          |
| HMIS    | Hazardous Materials Identification System                                                           |
| IARC    | International Agency for Research on Cancer                                                         |
| IATA    | International Air Transport Association                                                             |
| IBC     | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |



|         |                                                                                     |
|---------|-------------------------------------------------------------------------------------|
| ICAO    | International Civil Aviation Organization                                           |
| IECSC   | Inventory of Existing Chemical Substances in China                                  |
| IMDG    | International Maritime Dangerous Goods                                              |
| IMO     | International Maritime Organization                                                 |
| ISO     | International Organization for Standardization                                      |
| KECI    | Korean Existing Chemicals Inventory                                                 |
| LC50    | Lethal Concentration to 50% of a test population                                    |
| LD50    | Lethal Dose to 50% of a test population (Median Lethal Dose)                        |
| MARPOL  | International Convention for the Prevention of Pollution from Ships                 |
| NFPA    | National Fire Protection Association                                                |
| NIOSH   | National Institute for Occupational Safety and Health                               |
| n.o.s.  | Not Otherwise Specified                                                             |
| NOAEC   | No Observed Adverse Effect Concentration                                            |
| NOAEL   | No Observed Adverse Effect Level                                                    |
| NOELR   | No Observable Effect Loading Rate                                                   |
| NTP     | National Toxicology Program (United States)                                         |
| NZIoC   | New Zealand Inventory of Chemicals                                                  |
| OECD    | Organization for Economic Cooperation and Development                               |
| OEL     | Occupational exposure limits                                                        |
| OSHA    | Occupational Safety and Health Administration of the US Department of Labor         |
| PBT     | Persistent, Bioaccumulative and Toxic substance                                     |
| PICCS   | Philippines Inventory of Chemicals and Chemical Substances                          |
| PMT     | Persistent, Mobile and Toxic                                                        |
| PPE     | Personal protective equipment                                                       |
| QSAR    | Quantitative Structure Activity Relationship                                        |
| RID     | Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe) |
| SADT    | Self-Accelerating Decomposition Temperature                                         |
| SAR     | Structure-activity relationship                                                     |
| SARA    | Superfund Amendments and Reauthorization Act                                        |
| SDS     | Safety Data Sheet                                                                   |
| SL      | Surface Limit                                                                       |
| STEL    | Short Term Exposure Limit                                                           |
| STOT RE | Specific target organ toxicity - Repeated exposure                                  |
| STOT SE | Specific target organ toxicity - Single exposure                                    |
| TCSI    | Taiwan Chemical Substance Inventory                                                 |
| TDG     | Transport of Dangerous Goods (Canada)                                               |
| TSCA    | Toxic Substances Control Act (United States)                                        |
| TWA     | Time-Weighted Average                                                               |
| UN      | United Nations                                                                      |
| VOC     | Volatile organic compounds                                                          |
| vPvB    | Very Persistent and Very Bioaccumulative                                            |
| vPvM    | Very Persistent and Very Mobile                                                     |
| As      | Allergenic substance                                                                |
| DS      | Dermal Sensitizer                                                                   |
| Ot      | Ototoxicant                                                                         |
| pOt     | Ototoxicant - potential to cause hearing disorders                                  |
| PS      | Photosensitizer                                                                     |
| RS      | Respiratory Sensitizer                                                              |
| S       | Sensitizer                                                                          |
| poS     | Sensitizer - capable of causing occupational asthma                                 |
| Sa      | Simple asphyxiant                                                                   |
| Sd      | Skin designation                                                                    |
| pSd     | Skin designation - potential for cutaneous absorption                               |
| Sdv     | Skin designation - vacated                                                          |

|     |                                                    |
|-----|----------------------------------------------------|
| Sk  | Skin notation                                      |
| dSk | Skin notation - danger of cutaneous absorption     |
| pSk | Skin notation - potential for cutaneous absorption |

**Key literature references and sources for data used to compile the SDS**

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
U.S. Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications  
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program  
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set  
United Nations World Health Organization (WHO)

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**Revision Note** Initial Release.

**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.

**End of Safety Data Sheet**