

# SAFETY DATA SHEET

## Positive Control Nucleic acid template

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is provided on a voluntary basis and follows the formatting described in the REACH Regulation (EC) No 1907/2006 and the CLP Regulation (EC) No 1272/2008.

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

- 1.1 Product identifier**  
Positive Control nucleic acid template
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Laboratory Reagent
- 1.3 Details of the supplier of the safety data sheet**  
TwistDx Ltd  
Abbott House  
Vanwall Business Park  
Vanwall Road  
Maidenhead SL6 4XE  
United Kingdom  
Telephone: +1-877-450-6901  
E-mail [info@twistdx.co.uk](mailto:info@twistdx.co.uk)
- 1.4 Emergency telephone number**  
In case of emergency Tel. +1-703-741-5970 (+1-800-424-9300 for US, Canada)

### SECTION 2: Hazards Identification

- 2.1 Classification of the substance or mixture**  
Not classified as hazardous according to the CLP Regulation (EC) No 1272/2008
- 2.2 Label elements**  
  
No label required according to the CLP Regulation (EC) No 1272/2008

- 2.3 Other hazards**  
No special hazards

### SECTION 3: Composition

- 3.1 Substances**  
Not applicable, the product is a mixture

**3.2 Mixtures**

Name	CAS No, EC No, Registration No (if available)	Concentration	Classification
Tris	77-86-1 201-064-4	<1%	Not classified as hazardous
Ethylenediamine tetraacetic acid (EDTA)	60-00-4 200-449-4	<0.1%	Eye Irrit 2 H319 Acute Tox 4 H332 STOT RE 2 H373
Deoxyribonucleic acid	9007-49-2	<1%	Not classified as hazardous

See section 16 for full description of H statements.

### SECTION 4: First Aid Measures

**4.1 Description of first aid measures**

EYE CONTACT: Wash thoroughly with water and obtain medical attention if signs of discomfort.

INHALATION: Remove from exposure. If breathing becomes difficult call a doctor.

SKIN CONTACT: Wash off with soap and water. Seek medical attention if irritation occurs.

INGESTION: If swallowed, rinse mouth with water.

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

No information available

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

Symptomatic treatment as required

### SECTION 5: Firefighting Measures

**5.1 Extinguishing media**

Not combustible. Use extinguishing media appropriate to surrounding conditions.

## 5.2 Special hazards arising from the substance or mixture

No special hazards.

## 5.3 Advice for fire fighters

No special measures required.

## SECTION 6: Accidental Release Measures

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

Remove unnecessary personnel away from area of spill or contamination. Wear suitable protective clothing including eye protection, gloves and lab coat or coveralls. See section 8 for more information.

### 6.2 Environmental precautions

Prevent entry into drains and watercourses.

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

Small quantities (<500 mls) may be absorbed onto a suitable absorbent or paper towels and place in a sealed container for disposal. Wash spill area thoroughly with water and detergent.

### 6.4 References to other sections

See section 8 for further advice on protective equipment and section 13 for advice on disposal.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

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

Store at -80°C for long term stability of product.

### 7.3 Specific end uses(s)

Only for use as a laboratory reagent

## SECTION 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

No exposure limits available

### 8.2 Exposure controls

**Engineering controls**

None usually required. If spray or mists are likely to be generated, handle in a fume cupboard.

**Respiratory protection**

Not normally required. If spray or mists are likely to be generated, respiratory protection may be required.

**Hand Protection**

Wear suitable chemical resistant gloves. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

**Eye protection**

Wear safety glasses with side protection to prevent splashes to the eye.

**Skin protection**

Wear suitable protective clothing – lab coat or coveralls. These should be changed after use or if contaminated. Wash before re-use.

**Environmental Exposure**

Prevent unnecessary releases to the environment.

**SECTION 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Clear liquid
<b>Odour:</b>	No odour
<b>Odour threshold:</b>	Not applicable
<b>pH:</b>	No data
<b>Melting point:</b>	Similar to water
<b>Boiling point:</b>	Similar to water
<b>Flashpoint:</b>	Not flammable
<b>Evaporation rate:</b>	Similar to water
<b>Flammability (gas, solid):</b>	Not applicable
<b>Upper/lower flammability limits:</b>	Not flammable
<b>Vapour pressure:</b>	Similar to water
<b>Vapour density:</b>	Similar to water
<b>Relative density:</b>	Approximately 1.0
<b>Solubility in water:</b>	Soluble
<b>Solubility in other solvents:</b>	No data
<b>Partition coefficient (log Kow):</b>	No data
<b>Autoignition temperature:</b>	Not flammable
<b>Decomposition temperature:</b>	No data
<b>Viscosity:</b>	No data
<b>Explosive properties:</b>	Not classified as explosive

**Oxidising properties:** Not classified as oxidising

## 9.2 Other information

None

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No reactive hazards known

### 10.2 Chemical stability

Stable under the recommended storage conditions

### 10.3 Possibility of hazardous reactions

Not expected to occur.

### 10.4 Conditions to avoid

Excessive heat

### 10.5 Incompatible materials

None known

### 10.6 Hazardous decomposition products

None known

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

- |   |  |
|---|--|
| <b>(a) acute toxicity</b>                 | Not expected to be acutely toxic   |
| <b>(b) skin corrosion/irritation</b>      | Splashes may be mildly irritating to skin.   |
| <b>(c) serious eye damage/irritation</b>  | Splashes to the eye may be mildly irritating.  |
| <b>(d) respiratory/skin sensitisation</b> | Repeated inhalation of enzyme spray or dust following inappropriate handling may result in sensitisation and cause allergic reactions in sensitised individuals. |
| <b>(e) germ cell mutagenicity</b>         | Contains no substances classified for germ cell mutagenicity.  |
| <b>(f) carcinogenicity</b>                | Contains no known carcinogens  |
| <b>(g) reproductive toxicity</b>          | Contains no known reproductive toxicants.  |
| <b>(h) STOT-single exposure</b>           | contains no substances classified for target organ toxicity following single exposure.   |

- (i) STOT-repeated exposure No data available.  
(j) aspiration hazard Contains no substances known to present an aspiration hazard.

## SECTION 12: Ecological Information

This product has not been tested. Judgements on the expected environmental effects of this product have been made based upon consideration of its major components.

### 12.1 Toxicity

None of the components are classified as hazardous to the environment

### 12.2 Persistence and degradability

The organic components are expected to be rapidly biodegraded

### 12.3 Bioaccumulative potential

None of the components are expected to bioaccumulate

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

A formal PBT/vPvB assessment has not been carried out, but none of the components are expected to be PBT or vPvB.

### 12.6 Other adverse effects

None known

## SECTION 13: Disposal Considerations

### 13.1 Waste treatment methods

Small quantities of this material (<500 millilitres) may be disposed of by mixing with an excess of 10% sodium hypochlorite before being flushed with an excess of water to foul drainage. A dilution factor of at least 100 is recommended. Larger quantities of waste should be disposed of in a manner that complies with local regulations.

## SECTION 14: Transport Information

- 14.1 UN Number Not classified as hazardous  
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 None  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not transported in bulk

## SECTION 15: Regulatory Information

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

All components are listed as existing substances in Europe.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

## SECTION 16: Other Information

**Revision information:** New form

### List of Abbreviations used in this SDS:

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation (EC) no 1272/2008
DSD	Dangerous Substances Directive 67/548/EEC
DPD	Dangerous Preparations Directive 1999/45/EC
EC	European Community/Commission
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
vPvB	very Persistent, very Bioaccumulative

### References:

ECHA Classification and Labelling Inventory and Database of Disseminated Registration Dossiers

### Method used for classification of mixtures:

Ingredient based approaches

### H Statements used in Section 3

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H373 May cause damage to organs through prolonged or repeated exposure if inhaled

### Training requirements for workers

None