

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

**Product code** AB1453ACOMPONENTB  
**Product name** 5X cDNA Synthesis Buffer

**Company/undertaking identification****Manufacturer/Supplier**

Thermo Fisher Scientific Baltics UAB  
V.Graiciuno 8  
LT-02241 Vilnius  
Lithuania  
Tel.: +370 5 2602131  
Fax.: +370 5 2602142

**Emergency telephone number**

For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident), call  
CHEMTREC Domestic North America: 1-800-424-9300 (24 hours)  
CHEMTREC International: 1-703-527-3887 (collect calls accepted)

**Country specific Emergency  
Number (if available):**

**For research use only. Research Use Only. Not for use in diagnostic procedures.**

**SECTION 2: Hazards identification****GHS - Classification****Signal Word**

None

**Health hazards**

Not classified

**Physical hazards**

Not classified

**Hazard Statements**

Not Applicable

**Precautionary Statements****Prevention**

Not Applicable

**Response**

**Revision date** 17-Aug-2016  
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**Product name** 5X cDNA Synthesis Buffer

Not Applicable

**Storage**

Not Applicable

**Disposal**

Not Applicable

**Principle Routes of Exposure**

**Potential Health Effects**

**eyes** May cause eye irritation with susceptible persons.  
**Skin** May cause skin irritation in susceptible persons.  
**inhalation** May be harmful by inhalation.  
**Ingestion** May be harmful if swallowed.

**Specific effects**

**Carcinogenic effects** None.  
**Mutagenic effects** None.  
**Reproductive toxicity** None.  
**Sensitization** None.

**Target Organ Effects** No known effects under normal use conditions.

**HMIS**

Health	0
Flammability	0
Reactivity	0

**SECTION 3: Composition/information on ingredients**

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

**SECTION 4: First aid measures**

**Skin contact** Rinse cautiously with water for several minutes. Immediate medical attention is not required.  
**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.  
**inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.  
**Most important symptoms and effects, both acute and delayed**  
No data available  
Not Applicable

**Notes to Physician** Treat symptomatically.

**SECTION 5: Firefighting measures**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Specific hazards arising from the chemical</b>	Not known

#### SECTION 6: Accidental release measures

<b>Personal precautions</b>	Always wear recommended Personal Protective Equipment. Use personal protection equipment.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

#### SECTION 7: Handling and storage

<b>Handling</b>	Always wear recommended Personal Protective Equipment. No special handling advices are necessary.
<b>Storage</b>	Keep in a dry, cool and well-ventilated place.

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

#### Exposure Limits

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

#### **Personal Protective Equipment**

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Impervious gloves.

**Eye protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Lightweight protective clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains.

#### SECTION 9: Physical and chemical properties

#### General information

<b>Form</b>	Liquid
<b>Appearance</b>	Colorless
<b>Odor</b>	odorless
<b>Odor Threshold</b>	No information available

<b>Boiling point / boiling range</b>	°C No data available	°F No data available
<b>Melting point / melting range</b>	°C No data available	°F No data available
<b>flash point</b>	°C No data available	°F No data available
<b>Autoignition Temperature</b>	°C No data available	°F No data available
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	
<b>Oxidizing properties</b>	No information available	
<b>Water solubility</b>	soluble	
<b>Upper explosion limit</b>	No data available	
<b>Lower explosion limit</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>vapor density</b>	No data available	
<b>pH value</b>	No data available	

## SECTION 10: Stability and reactivity

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	No dangerous reaction known under conditions of normal use.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported
<b>Hazardous decomposition products</b>	None under normal use conditions.
<b>polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None under normal processing.

## SECTION 11: Toxicological information

### Acute Toxicity

#### Principle Routes of Exposure

#### Potential Health Effects

<b>eyes</b>	May cause eye irritation with susceptible persons.
<b>Skin</b>	May cause skin irritation in susceptible persons.
<b>inhalation</b>	May be harmful by inhalation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Carcinogenic effects</b>	None.
<b>Mutagenic effects</b>	None.
<b>Reproductive toxicity</b>	None.
<b>Sensitization</b>	None.
<b>Target Organ Effects</b>	No known effects under normal use conditions

## SECTION 12: Ecological information

<b>Ecotoxicity</b>	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
<b>Mobility</b>	No information available.
<b>Biodegradation</b>	Inherently biodegradable.
<b>Bioaccumulation</b>	Material does not bioaccumulate.

### SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

### SECTION 14: Transport information

#### IATA

<b>Proper Shipping Name</b>	No dangerous good in sense of these transport regulations
<b>Hazard Class</b>	None
<b>Subsidiary class</b>	None
<b>Packing group</b>	None
<b>UN-No</b>	None
<b>Environmental hazards</b>	None

### SECTION 15: Regulatory information

#### US Federal Regulations

##### **SARA 313**

This product is not regulated by SARA.

##### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

#### US State Regulations

##### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

##### **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### SECTION 16: Other information

**Reason for revision** SDS sections updated.

For research use only. Research Use Only. Not for use in diagnostic procedures.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be

used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

**End of Safety Data Sheet**