

1. PRODUCT AND COMPANY IDENTIFICATION

A. PRODUCT IDENTIFIERS

PRODUCT NAME : **10X T7EI Reaction Buffer**
 SYNONYMS : **N. A**
 PRODCUT NUMBER/CODES : **Proprietary Information**
 INDEX # : **N/A**
 CAS # : **N/A**

B. DETAILS OF SUPPLIER OF THE SAFETY DATA SHEET

COMPANY : **Integrated DNA Technologies**
 : **1710 Commercial Park**
Coralville, IA 52241

TELEPHONE : **1-800-328-2661**
 EMERGENCY PHONE # : **24 Hour Emergency Telephone:**
CHEMTREC: 1-800-424-9300

Note: CHEMTREC's emergency number is to be use only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

C. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE:

For research and development purposes only.

2. HAZARD IDENTIFICATION

A. GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

I. PICTOGRAM: : **Under UN GHS rev 6 no pictogram is assigned to Acute Oral category 5**
 ii. SIGNAL WORD : **Warning**
 III. HAZARD STATEMENTS :

H303 May be harmful if swallowed

IV. PRECAUTIONARY STATEMENTS: : **NOT APPLICABLE**

P312 Call a POISON CENTER/doctor if you fell unwell

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGRIDENTS	CAS #	PERCENT	HAZARDOUS CLASSIFICATION
DL-Dithiothreitol	3483-12-3	5-10%	Acute Tox 4; Skin Irrit 2; Eye Irrit. 2A
Water and other non-hazardous materials		90-95%	

4. FIRST AID MEASURES

SKIN CONTACT: **Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.**

EYE CONTACT: **Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.**

INGESTION: **Get medical attention.**

INHALATION: **Remove from exposure area to fresh air immediately. Get medical attention immediately.**

INJECTION: **If accidentally injected, get medical attention.**

NOTE TO PHYSICIAN: **There is no specific antidote. Treat symptomatically and supportively.**

5. **FIRE FIGHTING MEASURES**
 Fire and Explosion Hazard: **None known to exist.**
 Fire Extinguishing Media: **Dry chemical, foam, carbon dioxide or water.**
6. **ACCIDENTAL RELEASE MEASURES**
 OCCUPATIONAL SPILL: **Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.**
 REPORTABLE QUANTITY (RQ): **Not Applicable**
7. **HANDLING AND STORAGE**
Observe all federal, state and local regulations. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed. Store in a cool dry place (prolonged storage at 4° C). Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.
8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**
 EXPOSURE CONTROLS: **Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.**
 EYE PROTECTION: **Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.**
 CLOTHING: **Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.**
 GLOVES: **Employee must wear appropriate protective gloves to prevent contact with this material.**
9. **PHYSICAL AND CHEMICAL PROPERTIES**
 DESCRIPTION: **Clear Liquid**
 PH: **Not Available**
 MOLECULAR WEIGHT: **7.5-8.5**
10. **STABILITY AND REACTIVITY**
 REACTIVITY: **No adverse reactions have been reported.**
 CONDITIONS TO AVOID **Prolonged Storage. Keep at 4° C.**
 INCOMPATIBILITIES: **Avoid contact with Bases, oxidizing agents, Reducing agents, Alkali metals**
 POLYMERIZATION: **Not Available**
 HAZARDOUS DECOMPOSITION
11. **TOXICOLOGICAL INFORMATION**
 CARCINOGEN STATUS: **No information available.**
 LOCAL EFFECTS: **No information available.**
 TARGET EFFECTS: **No information available.**
 AT INCREASED RISK FROM EXPOSURE: **No information available.**
 CARCINOGEN/REPRODUCTIVE TOXIN STATUS:
 IARC **No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC**
 ACGIH **No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH**
 NTP **No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP**
 OSHA **No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA**

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4): **No data available**
 ACUTE AQUATIC TOXICITY: **No data available**
 DEGRADABILITY: **No data available**
 LOG BIOCONCENTRATION FACTOR (BCF): **No data available**

13. DISPOSAL CONSIDERATIONS

Observe all Federal, State and Local Regulations.

14. TRANSPORTATION INFORMATION**DOT (US)**

UN number: 3335 Class: 9

Proper shipping name: A Aviation regulated solid, n.o.s. ((R*, R*)-1,4-Dimercaptobutane-2,3-diol)

Reportable Quantity (RQ):

15. REGULATORY INFORMATION

The toxicological properties of this material have not been investigated.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

SARA 311-312 Hazards**Acute Health Hazards****Chronic Health Hazard**

Chemical	State	CAS-No	Revision Date
DL-Dithiothreitol	Pennsylvania	3483-12-3	
	New Jersey	3483-12-3	

16. OTHER INFORMATION**OTHER HEALTH INFORMATION**

SKIN CONTACT: Short Term Exposure: **Possible Irritant**
 Long Term Exposure: **No information available**
 EYE CONTACT: Short Term Exposure: **Possible Irritant**
 Long Term Exposure: **No information available**
 INGESTION: Short Term Exposure: **Possible Irritant**
 Long Term Exposure: **No information available**
 INHALATION: Short Term Exposure: **Possible Irritant**
 Long Term Exposure: **No information available**
 INJECTION: Short Term Exposure: **No information available**
 Long Term Exposure: **No information available**

THE AFOREMENTIONED INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. INTEGRATED DNA TECHNOLOGIES SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.