

1. PRODUCT AND COMPANY IDENTIFICATION

A. PRODUCT IDENTIFIERS

PRODUCT NAME : **Nuclease Free Water**
 SYNONYMS : **N/A**
 INDEX # : **231-791-5**
 CAS # : **7732-18-5**

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

THIS PRODUCT IS CONSIDERED NON-HAZARDOUS. Per OSHA 29CFR1910.1200, Commonwealth of Australia [NOHSC: 1005, 1008(1999)], and the latest amendments to the European Union Directives 67/548/EC and 1999/45/EC, this product does not require a Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS). This product does not contain more than 1% of a component classified as hazardous and does not contain more than 0.1% of a component classified as carcinogenic. Despite the classification of certain products/components as non-hazardous, we strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment, which may include gloves, eye protection, and lab coats, during the use of any laboratory reagent. IDT shall not be held liable for any damages resulting from handling or from contact with the above product.

I. PICTOGRAM: :NOT APPLICABLE
 II. SIGNAL WORD :NOT APPLICABLE
 III. HAZARD STATEMENTS :NOT APPLICABLE
 IV. PRECAUTIONARY STATEMENTS: :NOT APPLICABLE

3. COMPOSITION/INFORMATION ON INGREDIENTS

| INGRIDENTS | CAS # | PERCENT | HAZARDOUS CLASSIFICATION |
|--------------|------------------|-------------|--------------------------|
| Water | 7732-18-5 | 100% | None- Hazardous |

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. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.**

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. Do not breathe dust. 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: **< 7.0 (slightly acidic)**

MOLECULAR WEIGHT: **18.051**

Odor: **Odorless**

Solubility: **Soluble in H2O**

Density: **1.0 g/cm³ at 20°C**

% Volatiles by volume: **0.0**

Boiling Point: **100.0°C**

Melting Point: **0.0°C**

Vapor Pressure: **23 hPa at 20°C**

10. **STABILITY AND REACTIVITY**

REACTIVITY: **Stable under recommended storage conditions.**

CONDITIONS TO AVOID **Not Available**

INCOMPATIBILITIES: **Not Available**

POLYMERIZATION: **Not Available**

11. **TOXICOLOGICAL INFORMATION**

| | |
|---------------------------------------|--|
| TOXICITY: | The toxicological properties of this material have not been investigated. For research and development purposes only. |
| 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

Ship as a non-regulated material. No transportation restrictions apply. The acute toxicity profile does not warrant shipment as a hazardous material (DOT) or a dangerous good (IATA).

15. REGULATORY INFORMATION

The toxicological properties of this material have not been investigated. For research and development purposes only.

16. OTHER INFORMATION

POTENTIAL HEALTH EFFECTS:

| | | |
|---------------|----------------------|------------------------------------|
| 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 | May cause long term health effects |
| 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.