1. PRODUCT AND COMPANY IDENTIFICATION
   A. PRODUCT IDENTIFIERS
      PRODUCT NAME: Oligodeoxyribonucleic Acid, Modified, Non-Radioactive, Non-Hazardous
      SYNONYMS: Modified Synthetic DNA, Modify Oligo
      PRODUCT 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

      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

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS #</th>
<th>PERCENT</th>
<th>HAZARDOUS CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oligodeoxyribonucleic acid, unmodified</td>
<td>N/A</td>
<td>85%-95%</td>
<td>NON-HAZARDOUS</td>
</tr>
<tr>
<td>Non-Radioactive modification</td>
<td>N/A</td>
<td>5%-15%</td>
<td>NON-HAZARDOUS</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

   Oligodeoxyribonucleic Acid, Modified, Non-Radioactive, Non-Hazardous
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. If accidentally injected, get medical attention.

INJECTION: There is no specific antidote. Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES
   None known to exist.

   Fire Extinguishing Media: Dry chemical, foam, carbon dioxide or water. Care should be taken 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: Translucent or opaque flake, film or powder like substance

   PH: Not Available

   MOLECULAR WEIGHT: Varies

10. STABILITY AND REACTIVITY
    REACTIVITY: No adverse reactions have been reported.

    CONDITIONS TO AVOID: Prolonged Storage. Keep at 4° C.

    INCOMPATIBILITIES: Not Available

    POLYMERIZATION: Not Available

11. TOXICOLOGICAL INFORMATION

    Oligodeoxyribonucleic Acid, Modified, Non-Radioactive, Non-Hazardous
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: 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.