1. PRODUCT AND COMPANY IDENTIFICATION
   - Product name: Oligonucleotides
   - Base Catalog Number: Varies
   - CAS-No.: No data available
   - Identified uses: For research and development use
   - Company: Biosearch Technologies, Inc.
   - 2199 South McDowell Blvd.
   - Petaluma, CA 94954-6904
   - USA
   - Telephone: +1.415.883.8400
   - Fax: +1.415.883.8488
   - Emergency Phone #: +1.800.424.9300 (US)
   - +1.703.527.3887 (International)

2. HAZARDS IDENTIFICATION
   2.1. Classification of substance or mixture
       - Not a hazardous substance or mixture
   2.2. GHS Label elements, including precautionary statements
       - Not a hazardous substance or mixture
   2.3. Hazards not otherwise classified (HNOC)
       - None

3. COMPOSITION/INFORMATION ON INGREDIENTS
   3.1. Substances
       - Synonyms: Deoxyribonucleic acid (DNA)
       - Formula: No data available
       - Molecular Weight: Varies

4. FIRST AID MEASURES
   4.1. Description of first aid measures
       - If inhaled
         - If breathed in, move person into fresh air. If not breathing, give artificial respiration.
       - In case of skin contact
         - Wash off with soap and plenty of water.
       - In case of eye contact
         - Flush eyes with water as a precaution.
       - If swallowed
         - Never give anything by mouth to an unconscious person. Rinse mouth with water.
   4.2. Most important symptoms and effects, both acute and delayed
       - The most important known symptoms and effects are described in the labeling in section 2 and/or in section 11
   4.3. Indication of any immediate medical attention and special treatment needed
       - No data available

5. FIREFIGHTING MEASURES
   5.1. Extinguishing media
       - Use a Class A Extinguisher (Dry chemical, carbon dioxide, water or foam).
   5.2. Special hazards arising from the substance or mixture
       - Oxides of nitrogen and carbon.
   5.3. Advice for firefighters
       - Wear self-contained breathing apparatus (SCBA) for firefighting if necessary.
   5.4. Further information
       - No data available

6. ACCIDENTAL RELEASE MEASURES
   6.1. Personal precautions, protective equipment and emergency procedures
       - Avoid dust formation. Avoid breathing vapors, mist or gas.
       - For personal protection, see section 8.
6.2. Environmental precautions
   Do not let product enter drains

6.3. Methods and materials for containment and cleaning up
   Sweep up and shovel. Finish by wiping with a damp towel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections
   For disposal, see section 13.

7. HANDLING AND STORAGE
   7.1. Precautions for safe handling
         Provide appropriate exhaust ventilation at places where dust is formed.
         For precautions, see section 2.2.

   7.2. Conditions for safe storage, including any incompatibles.
         Keep container tightly closed in a dry and well-ventilated place.
         Recommended storage temperature: -20 °C, desiccated
         Specific end use(s)
         Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
   8.1. Control parameters
         Components with workplace control parameters
         Contains no substances with occupational exposure limit values.

   8.2. Exposure controls
         Appropriate engineering controls
         General industrial hygiene practice.

         Personal protective equipment
         Eye/face protection
         Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

         Skin Protection
         Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated glove after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

         Body Protection
         Chose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work place. The type of protective equipment must be selected according to the concentration and amount of dangerous substances, and to the specific work place.

         Respiratory protection
         Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

   Control of environmental exposure
   Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES
   9.1. Information on basic physical and chemical properties
   
   a) Appearance (physical state, color, etc.)
      colorless
   b) Odor
      No data available
   c) Odor threshold
      No data available
   d) pH
      No data available
   e) Melting point/freezing point
      No data available
   f) Initial boiling point and boiling range
      No data available
   g) Flash point
      No data available
   h) Evaporation rate
      No data available
   i) Flammability (solid, gas)
      No data available
   j) Upper/lower flammability or explosive limits
      No data available
   k) Vapor pressure
      No data available
l) Vapor density
m) Relative density
n) Solubility
o) Partition coefficient: n-octanol/water
p) Auto-ignition temperature
q) Decomposition temperature
r) Viscosity
s) Explosive properties
t) Oxidizing properties

9.2. Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity
No data available

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
No data available

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
Strong oxidizing agents

10.6. Hazardous decomposition products
Other decomposition products- no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity
No data available
Inhalation: no data available
Dermal: no data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
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 carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Specific target organ toxicity- single exposure
No data available

Specific target organ toxicity-repeated exposure
No data available
12. ECOLOGICAL INFORMATION
12.1. Toxicity
No data available
12.2. Persistence and degradability
No data available
12.3. Bioaccumulative potential
No data available
12.4. Mobility in soil
No data available
12.5. Results and PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6. Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS
13.1. Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product

14. TRANSPORTATION INFORMATION
DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

15. REGULATORY INFORMATION
SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components
SARA 313: 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.
California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

LGC Biosearch Technologies’ laboratory chemicals are for research purposes only and are not intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all-inclusive and should only be used as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we cannot guarantee that those are the only hazards that exist. Our SDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods as the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS sheets for products that are stored for extended periods.

Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g., protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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