

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING	
Product Name	Oligonucleotides, oligodeoxynucleic acids, oligoribonucleic acids, unmodified, modified, non-radioactive.
Supplier Name	Bio-Synthesis, Inc.
Supplier Address	800 Mario Court Lewisville, TX 75057
Phone Number	1-972-420-8505
Fax Number	1-972-420-0442
Internet E-Mail	biosyn@biosyn.com
Web Site	biosyn.com
Emergency Telephone Number	1-800-227-0627
Relevant Identified Uses	For research use only, not for human or veterinary use.
Restrictions	For research use only, not for human or veterinary use.

2. HAZARD(S) IDENTIFICATION	
Classification of the Substance or Mixture	The product is not classified according to the Globally Harmonized System (GHS).
Signal Word	None
Pictograms	None

3. COMPOSITION / INFORMATION ON INGREDIENTS	
Chemical Name	Custom Synthetic Oligonucleotides
Common Name and Synonyms	None
Chemical Abstracts Service (CAS#)	None SARA 313 None
Formula	100% <u>Oligonucleotides</u>

4. FIRST AID MEASURES	
Oral Exposure	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation Exposure	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
Dermal Exposure	In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician.
Eye Exposure	In case of contact with eyes, flush with copious amounts of water for at least fifteen (15) minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Description of the Most Important Symptoms or Effects, and Any Symptoms that Are Acute or Delayed	May cause skin, mouth or eye irritation.
Recommendations for Immediate Medical Care and Special Treatment Needed, When Necessary	Call a physician.

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5. FIRE FIGHTING MEASURES	
Flash Point	N/A
Auto Ignition Temp	N/A
Flammability	N/A
Suitable Extinguishing Equipment	Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Not Suitable Extinguishing Equipment	A solid water stream may be inefficient.
Firefighting Protective Equipment	Wear protective clothing to prevent contact with skin and eyes.
Specific Hazard(s) Advice	May emit toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES	
Procedure in Case of Leak or Spill	Evacuate area.
Procedure(s) of Personal Precaution(s)	Wear chemical safety goggles and personal protection as needed.
Methods for Cleaning Up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE	
Precautions for Safe Handling	Avoid inhalation of fumes, gases, mists and sprays. Avoid contact with eyes skin and clothing.
Safe Storage Requirements	Keep tightly closed. Store at -20°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Permissible Exposure Limits (PELs)	Not Available
ACGIHs Threshold Limit Values (TLV)	Not Available
Other Exposure Limit(s)	N/A
Engineering Controls	Safety shower and eye bath. Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below exposure limits.
Eye Protection	Safety glasses, as needed.
Face Protection	Face protection, as needed.
Skin Protection	Wash thoroughly after handling.
Respiratory Protection	NIOSH approved respirator, as conditions warrant.
Hand Protection	Compatible chemical resistant gloves.
Protective Clothing	Laboratory coat.

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9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical States	Solid
Color	Colorless or White
Appearance and Odor	A lyophilized powder and odorless.
Odor Threshold	Undetermined
pH	Undetermined
Melting Point	Undetermined
Freezing Point	Not Applicable
Initial Boiling Point	Undetermined
Boiling Range	Undetermined
Flash Point	Not Applicable
Evaporation Rate	Undetermined
Flammability (Solid, Gas)	Not Applicable
Upper Flammability or Explosive Limits	Undetermined
Lower Flammability or Explosive Limits	Undetermined
Vapor Pressure	Undetermined
Vapor Density	Undetermined
Relative Density	Undetermined
Solubility	Fully miscible
Partition coefficient: n-octanol / Water	Undetermined
Auto-ignition Temperature	Not Applicable
Decomposition Temperatures	Not Applicable
Viscosity	Not Applicable

10. STABILITY AND REACTIVITY	
Reactivity	No data available.
Stability	Stable if stored in accordance with information listed on the product insert. Avoid strong acids, strong bases.
Conditions to Avoid	No data available.
Incompatible Materials	Activated carbon.
Hazardous Decomposition Products	Carbon dioxide and carbon monoxide.

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11. TOXICOLOGICAL INFORMATION	
Ingredients	100% <u>Oligonucleotides</u>
Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful.
Eye Contact	May cause eye irritation.
Inhalation	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed.
Additional Toxicological Information	The product is not subject to classification according to the calculation method of the General EU Classification Guidelines.
Target Organs	Not Applicable.
International Agency for Research On Cancer (IARC)	None of the ingredients are listed.
National Toxicology Program (NTP)	None of the ingredients are listed.
OSHA	None of the ingredients are listed.

12. ECOLOGICAL INFORMATION	
Ecotoxicity	Avoid release into the environment.
Persistence / Degradability	Runoff from fire control or dilution water may cause pollution.
Bioaccumulation / Accumulation	No data available.
Mobility in Environment	No data available.

13. DISPOSAL CONSIDERATIONS	
Disposal Instructions	This material must be disposed of in accordance with all local, state, municipal, provincial and federal regulations.

14. TRANSPORT INFORMATION	
Proper Shipping Name Per DOT	None.
Non-Hazardous for Air Transport Per IATA	This substance is considered to be non-hazardous for transport.

15. REGULATORY INFORMATION	
Per EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists	
Components	Oligonucleotides.
S.302 (EHS)	Not Hazardous.
S.204 (RQ)	Not Hazardous.
S.313 (TRI)	Not Hazardous.
Per US EPA or State Lists	
CAA HAP	Not Hazardous.
CWA NPDES	Not Hazardous.
TSCA	Not Hazardous.
CA Prop. 65	Not Hazardous.
Regulatory Information Statement	This and SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation EC No. 1272 /2007.

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16. OTHER INFORMATION

Disclaimer ►

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Bio-Synthesis, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

DOCUMENT HISTORY

REV. 00 09/15/16. Converted Material Safety Data Sheet (MSDS) into new Global Harmonization System (GHS) format for Safety Data Sheets (SDSs) in Modular Documentation System.

REV. 01 07/10/18. Corrected typographical errors.