



QUANTITATION

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code 50100, 50500

Product Name Bright Box Oligos

Supplier
Edge BioSystems
2032 Concourse Drive
San Jose, CA 95131
Tel: 1-800-326-2685
www.edgebio.com

Emergency telephone number 1.800.326.2685

Product use NGS Library quantitation

Canadian PIN N/A

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Name	CAS Number	EC Number	Weight %
	Deoxyribonucleic Acid, Modified	N/A	N/A	N/A

Other components	Name	CAS Number	EC Number	Weight %
	None	N/A	N/A	N/A

See Section 15 of this MSDS for OSHA Regulatory Status

3. HAZARDS IDENTIFICATION

Hazard classification	Classification of the substance or mixture according to Regulation (EC) No 1272/2008 Not classified as hazardous.
Signal word	None
Pictograms	None
Emergency overview	No information available.
OSHA Hazards	No known OSHA hazards
HMIS Rating	
Health Hazard:	0
Flammability:	0
Reactivity Hazard:	0
Primary route(s) of entry	Skin, eyes, inhalation
Symptoms of exposure	
Inhalation	No symptoms known.
Eye contact	May be slightly irritating to eyes.
Skin contact	Prolonged contact may cause dryness of the skin.
Ingestion	No symptoms known.
Medical conditions aggravated by exposure	None known.
Listed as carcinogen or potential carcinogen	Not listed by OSHA, the International Agency for Research on Cancer (IARC), or the National Toxicology Program (NTP)

4. FIRST AID

Inhalation	Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult. Give artificial respiration if not breathing.
Eye contact	Rinse eyes slowly and gently with water for at least 15 minutes while holding eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Remove any contact lenses and then continue flushing eyes. Seek medical attention if irritation develops and persists.
Skin contact	Wash affected areas with plenty of water, and soap if available, for several

minutes. Immediate medical attention is not required.

Ingestion

Not expected to present a significant ingestion hazard under normal use. If you feel unwell, seek medical advice. Give 3-4 glasses of water, but DO NOT induce vomiting.

Note to physician

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point and Method

N/A

General hazard

The product is not flammable. Does not present any special hazards.

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Extinguishing media to avoid

Do not use water jet as an extinguisher, as this will spread the fire.

Special firefighting instructions

Move containers from area if it can be done without risk.

Firefighting equipment

As in any fire, wear NIOSH (US) or CEN (EU) approved, positive-pressure, self-contained breathing apparatus and full protective gear.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.
Wear appropriate protective equipment (see Section 8).
Do not touch or walk into spilled material.

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

Clean-up methods

Soak up with inert absorbent material. Collect and place in suitable waste disposal containers and seal securely.

7. HANDLING AND STORAGE

Handling

Wear appropriate protective equipment (See Section 8). Avoid contact with eyes, skin or clothing. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Wash thoroughly after handling.

Storage

Keep container closed. Store in a dry, cool place at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No information available.

Engineering controls	Provide adequate ventilation
Personal Protection	Wash hands after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respirator	Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
Eye Protection	Wear safety goggles.
Gloves	Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.
Clothing	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Other	Eye wash, emergency shower.
OSHA Permissible Exposure Limits (PELs)	N/A
American Conference of Governmental Industrial Hygienists Threshold Limit Values (TLVs)	N/A
Other recommended exposure limits	This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	Color	Translucent or opaque flake, film or powder like substance
Odor	Odourless	Odor threshold	No information available
pH	No information available	Flash point	No information available
Melting point	No information available	Freezing point	No information available
Initial boiling point	No information available	Boiling range	No information available
Evaporation rate	No information available	Flammability	No information available
Upper flammability	No information available	Lower flammability	No information available
Vapor pressure	No information available	Vapor density	No information available
Relative density	No information available	Viscosity	No information available

Solubility	No information available	Partition coefficient	No data available
Auto-ignition temperature	No information available	Decomposition temperature	No information available

10. STABILITY AND REACTIVITY

Reactivity	Stable
Chemical Stability	Stable under normal conditions.
Materials to avoid	None known
Conditions to avoid	None known
Incompatible materials	No dangerous reaction known under conditions of normal use
Hazardous decomposition products	No information available.

11. TOXICOLOGICAL INFORMATION

Primary route(s) of entry	Skin, eyes, inhalation
Symptoms of exposure	
Inhalation	No symptoms known.
Eye contact	May be slightly irritating to eyes.
Skin contact	Prolonged contact may cause dryness of the skin.
Ingestion	No symptoms known.
Medical conditions aggravated by exposure	None known.
Primary route(s) of entry	Skin, eyes, inhalation
Toxicity	
Acute Toxicity	No information available
Chronic Toxicity	No information available

Symptoms	No information available
Carcinogen or potential carcinogen	Not listed by OSHA, the International Agency for Research on Cancer (IARC), or the National Toxicology Program (NTP)
Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ toxicity - single exposure	No information available.
Specific target organ toxicity - repeated exposure	No information available.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Persistence/degradability	No information on product available.
Bioaccumulation potential	No information available.
Potential for soil to groundwater movement	No information available. Expected to be mobile in the environment due to high water solubility.

13. DISPOSAL CONSIDERATIONS

RCRA hazardous waste code	Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.
Special instructions	Observe all federal, state and local laws and regulations.

14. TRANSPORT INFORMATION

DOT hazard class Not regulated.

TDG hazard class Not regulated.

IMDG Not regulated.

15. REGULATORY INFORMATION

OSHA regulatory status (29 CFR 1910.1200) No information available.

National Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

CERCLA reportable quantity (40 CFR 117, 302)	Name	Reportable quantity (lbs)
	Not reportable	N/A

SARA extremely hazardous substances (40 CFR 355)	Name	Threshold planning quantity (lbs)	Reportable quantity (lbs)
	None	N/A	N/A

SARA hazard categories (40 CFR 370) None

SARA toxic chemicals (40 CFR 372)	Name	CAS Number	Percentage
	None	N/A	N/A

Toxic Substance Control Act No information available.

Controlled Products Regulations This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS classification Not a controlled product.

Right to Know Components No information available.

California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Abbreviations

C – Ceiling limit
ERG – Emergency Response Guidebook
LC₅₀ – The concentration of a substance in air that will kill 50% of test animals within a certain exposure period.
LD₅₀ – The dose that causes death in 50% of test animals.
N/A – Not applicable
N/D – Not determined
N/E – Not established
N/K – Not known
PIN – Product Identification Number
RQ – Reportable Quantity
STEL – Short Term Exposure Limit
TPQ – Threshold Planning Quantity
TWA – Time Weighted Average
WHMIS – Workplace Hazardous Materials Information System

Preparation information

Date prepared 25 February 2022
Date revised 25 February 2022

MSDS Number Bright Box Master Mix

Disclaimer

The above information is believed correct but does not purport to be all-inclusive and shall only be used as a guide. Edge BioSystems shall not be held liable for any damage resulting from handling or from contact with the above product.