



QUANTITATION

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code 50100, 50500

Product Name Bright Box Assay Mix

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 %
	Glycerol	56-81-5	200-289-5	10-30

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
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.
Symptoms of exposure	
Inhalation	May cause respiratory tract irritation, experienced as coughing
Eye contact	May cause irritation, experienced as pain, redness, or tearing
Skin contact	May cause irritation, experienced as redness or swelling.
Ingestion	May cause irritation to gastro-intestinal tract, nausea and/or vomiting, diarrhea and other adverse health effects.
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	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
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.

Note to physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point and Method	N/A
General hazard	Does not present any special hazards.
Extinguishing media	Use media suitable for the material that is burning.
Extinguishing media to avoid	None
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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Wear appropriate protective equipment (see Section 8).
Environmental precautions	No special environmental precautions required.
Clean-up methods	Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Handling	Wear appropriate protective equipment (See Section 8). Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.
Storage	Keep container closed. Store in a dry, cool place at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters	Glycerol – OSHA PEL 15mg/m ³ 5 mg/m ³
Engineering controls	General ventilation
Personal Protection	
Respirator	None required under normal use conditions.
Eye Protection	Tight sealing safety goggles
Gloves	Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.
Clothing	Long sleeved laboratory coats or jackets are recommended.

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	liquid	Color	White
Odor	No information available	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

Toxicity

Acute Toxicity	Glycerol LD50 Oral: LD50 = 12600 mg/kg (Rat) LD50 Dermal: LD50 = > 10 mg/kg (Rabbit) LD50 Inhalation: LD50 = > 570 mg/m ³ (Rat)
Chronic Toxicity	No information available
Symptoms	No information available
Carcinogen or potential carcinogen	No information available.
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	Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants. logPow-1.76
Persistence/degradability	No information on product available.
Movement/partitioning	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.

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	The chemicals in this product are listed on the US TSCA Chemical Substances Inventory.	
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		<u>Glycerol</u> Cas No. 56-81-5
	Massachusetts - RTK	Listed
	New Jersey – RTK	Listed
	Pennsylvania – RTK	Listed
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	<p>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</p>
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Preparation information

Date prepared	25 February 2022
Date revised	25 February 2022

MSDS Number	Bright Box Master Mix
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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.
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