SAFETY DATA SHEET



Version 3 2017-01-11

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): CleanCap™ beta gal mRNA

CleanCap™ Beta galactosidase mRNA

Product Number: L-7608

CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.

Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies

9955 Mesa Rim Road San Diego, CA 92121

USA

Company phone: 858-546-0004

800-863-6801 (toll free)

Fax: 858-546-0020

Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004

800-863-6801 (toll free)

7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

3. COMPOSITION

3.1 Substances

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at

least 15 minutes, lifting lower and upper eyelids. Consult a

physician.

Skin contact: Immediately wash skin with soap and water.

Inhalation: Remove to fresh air.

Ingestion: If swallowed, wash out mouth with water provided person is

conscious. Consult a physician.

L-7608 Page 1 of 6

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

L-7608 Page 2 of 6

Skin/Body Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Use in well ventilated areas.

General: Handle in accordance with good industrial hygiene and safety

practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state: Liquid
Appearance: Colorless
Odor: Mild

pH: Refer to trilinkbiotech.com for specific information.

Melting Point/Freezing Point:
Boiling Point/Boiling Range:
Flash Point:
Evaporation Rate:
Flammability (solid, gas):
Upper/Lower Flammability
No information available
No information available
No information available
No information available

Limits:

Vapor Pressure: No information available Vapor Density: No information available Relative Density: No information available Specific Density: No information available Water Solubility: No information available Partition Coefficient: No information available Autoignition Temperature: No information available Decomposition Temperature: No information available Viscosity: No information available Oxidizing Properties: No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

L-7608 Page 3 of 6

Inhalation Avoid breathing vapors or mists. May cause irritation of

respiratory tract.

Eye contact Redness. May cause slight irritation.

Skin contact Prolonged contact may cause redness and irritation. Repeated

exposure may cause skin dryness or cracking.

Ingestion May cause drowsiness or dizziness. Ingestion causes burns of the

upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache,

nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms No information available.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation: Mild Serious Eye Damage/Eye Mild

Irritation:

Skin or Respiratory Sensitization: No information available
Germ Cell Mutagenicity: No information available
Carcinogenicity: No information available
Reproductive Toxicity: No information available
Developmental Toxicity: No information available
Teratogenicity: No information available
STOT - Single Exposure: No information available
STOT - Repeated Exposure: No information available

Target Organs: Kidneys, eyes, skin, respiratory system

Chronic Toxicity: No information available Subchronic Toxicity: No information available Neurological Effects: No information available Aspiration Hazard: No information available Other Adverse Effects: No information available

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available
Ozone Depletion Potential: No information available

L-7608 Page 4 of 6

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information: Keep out of drains, sewers, ditches and waterways.

Disposal Method: Use a licensed professional waste disposal service to dispose of

this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a

chemical incinerator.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot: Not dangerous goods.

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA): This product does not contain any substances regulated as

pollutants pursuant to the Clean Water Act (40 CFR 122.21 and

40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances

regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local regional or state level.

reporting requirements at the local, regional, or state level

pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard: 0
Flammability: 0
Physical Hazard: 0
Chronic Health Hazard: 0

16.2 NFPA Rating

Health Hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

16.3 Preparation Information

Prepared By: TriLink BioTechnologies

858-546-0004

Issue Date: 2017-01-11

Version: 3

16.4 Further Information

Copyright 2016 TriLink BioTechnologies. License granted to make unlimited paper copies for internal use only. The above information is believed to be accurate, but not necessarily all inclusive, and thus should only be used as a guide in the handling and use of this material. The

L-7608 Page 5 of 6

data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. TriLink BioTechnologies, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product.

L-7608 Page 6 of 6