

Product Name: EZ Cap™ Firefly Luciferase mRNA (5-moUTP) coated with LNP Revision Date: 5/30/2020

# Safety Data Sheet(SDS)

## I. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

EZ Cap<sup>™</sup> Firefly Luciferase mRNA (5-moUTP) coated with LNP

Product Catalog Number:

Company:



R1019

APExBIO Technology 7505 Fannin street, Suite 410, Houston, TX 77054, USA +1-832-696-8203 TEL +1-832-641-3177 FAX +1-855-577-7998 EMERGENCY PHONE

## **II. HAZARDS IDENTIFICATION**



After Inhalation:

If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration.

After skin contact:

After eye contact:



After swallowing:

Flush with copious amounts of water; remove contaminated clothing and shoes; call a physician; Take victim to hospital immediately; call a physician.

Check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician.

If swallowed, wash out mouth with copious amounts of water; call a physician

## **V. FIRE FIGHTING MEASURES**

Conditions of flammability:

Suitable extinguishing media:

Special protective equipment for firefighters:

Hazardous combustion products:



Not flammable or combustible

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.

# **VI. ACCIDENTAL RELEASE MEASURES**

Personal precautions:

Environmental precautions:

Methods and materials for containment and cleaning up:

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas.

Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **VII. HANDLING AND STORAGE**

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Precautions for safe handling:

Conditions for safe storage:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 4°c (切勿冷 冻) Keep in a dry place.

# **VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Personal protective equipment as follows:

Respiratory protection:

Hand protection:

Eye protection:



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Skin and body protection:

Contains no substances with occupational exposure limit values.

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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 gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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

Choose 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 the dangerous substance at the specific workplace.

Hygiene measures:

General industrial hygiene practice.

# **IX. PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

- No data available a) Appearance No data available b) Odour c) Odour Threshold No data available No data available d) pH e) Melting point/freezing point No data available f) Initial boiling point and No data available boiling range g) Flash point No data available h) Evaporation rate No data available PEABle i) Flammability (solid, gas) No data available j) Upper/lower flammability or No data available explosive limits No data available k) Vapour pressure I) Vapour density No data available PEABL m) Relative density No data available n) Water solubility No data available o) Partition coefficient No data available p) Auto-ignition temperature No data available No data available q) Decomposition temperature
  - APE B



r)	Viscosity
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s) Explosive properties

t) Oxidizing properties

Other safety information

No data available

# X. STABILITY AND REACTIVITY

No data available

No data available

No data available



Chemical stability:

Possibility of hazardous reactions:

Conditions to avoid:

Materials to avoid:

Stable under recommended storage conditions.

No data available.

No data available.

Strong acids, Strong bases.

# **XI. TOXICOLOGICAL INFORMATION**



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.

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

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

# **XII. ECOLOGICAL INFORMATION**



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Massachusetts Right To Know Components:

Pennsylvania Right To Know Components:

New Jersey Right To Know Components:

California Prop. 65 Components:

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the New Jersey Right to Know Act.

No components are subject to the New Jersey Right to Know Act.

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

#### **XVI. OTHER INFORMATION**

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