

Product Name: Firefly Luciferase mRNA (ARCA, 5-moUTP)

Revision Date: 5/30/2020

Safety Data Sheet(SDS)

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Firefly Luciferase mRNA (ARCA, 5-moUTP)

Product Catalog Number: R1012

Company: APExBIO Technology

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II. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards: No Specific Hazard

III. COMPOSITION/DATA ON COMPONENTS

Formula:

Molecular Weight:

IV. FIRST AID MEASURES

After Inhalation: If inhaled, remove to fresh air; if breathing is

difficult, give oxygen; if breathing stops, give

artificial respiration.

After skin contact: Flush with copious amounts of water; remove

contaminated clothing and shoes; call a physician;

Take victim to hospital immediately; call a

physician.

After eye contact: 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.

After swallowing: If swallowed, wash out mouth with copious

amounts of water; call a physician

V. FIRE FIGHTING MEASURES

Conditions of flammability: Not flammable or combustible.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry

chemical or carbon dioxide.

Special protective equipment for

firefighters:

Wear self contained breathing apparatus for fire

fighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under

fire conditions. - Carbon oxides, nitrogen oxides

(NOx), Sulphur oxides.

VI. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear respiratory protection. Avoid dust

formation. Avoid breathing vapors, mist or gas.

Environmental precautions: Do not let product enter drains. Prevent further

leakage or spillage if safe to do so.

Methods and materials for Pick up and arrange disposal without creating containment and cleaning up:

dust. Sweep up and shovel. Keep in suitable,

closed containers for disposal.

VII. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation

of dust and aerosols.

Provide appropriate exhaust ventilation at places

where dust is formed.

Conditions for safe storage: Keep container tightly closed in a dry and

well-ventilated place.

Recommended storage temperature: -40°C or

below

Keep in a dry place.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment as follows:

Contains no substances with occupational exposure limit values.

Respiratory protection: 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).

according to the concentration and amount of

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.

Eye protection:

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

Skin and body protection:

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

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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

a) Appearance	No data available
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b) Odour No data available

c) Odour Threshold No data available

d) pH No data available

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

i) Flammability (solid, gas) No data available

j) Upper/lower flammability or No data available

explosive limits

k) Vapour pressure No data available

I) Vapour density No data available

m) Relative density No data available

n) Water solubility No data available

o) Partition coefficient No data available

q) Decomposition temperature

No data available

r) Viscosity

No data available

s) Explosive properties

No data available

t) Oxidizing properties

No data available

Other safety information

No data available

X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: No data available.

Materials to avoid: Strong acids, Strong bases.

XI. TOXICOLOGICAL INFORMATION

Carcinogenicity

NTP:

OSHA:

IARC: 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.

ACGIH: 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.

APE BIC

No component of this product present at levels APE BIO

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

General notes:

No data available.

XIII. DISPOSAL CONSIDERATION

General notes:

Dispose of in accordance with prevailing country, federal, state and local regulations

XIV. TRANSPORT INFORMATION

DOT (US):

IMDG:

This substance is considered to be non-hazardous

for transport.

UN number: 3077

Class: 9

Packing group: III EMS-No: F-A, S-F

Proper shipping name: Environmentally

hazardous substance, solid, n.o.s. Marine pollutant: Marine pollutant

IATA:

UN number: 3077

Class: 9

Packing group: III

Proper shipping name: Environmentally

hazardous substance, solid, n.o.s.

XV. REGULATIONS

SARA 302 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA

Title III, Section 302.

SARA 313 Components:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard.

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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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