

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): CatPure™ FLuc mRNA

Firefly Luciferase mRNA

Product Number: CT072

CAS Number: Not applicable

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.

Use advised against: No information available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: 1 New Jersey Rd, Building 9 SIP, Suzhou, China

Company phone: +86-0512-68560235

Fax: None

Email address: info@catugbio.com

1.4 Emergency Telephone Number

Emergency Phone: +86-0512-68560235

9 am-6 pm, 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.

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 -60°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). 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: Transparent liquid

Appearance: Colorless
Odor: Weak odor

pH: Refer to <u>www.catug.bio</u> for specific information.

Melting Point/Freezing Point: No information available Boiling Point/Boiling Range: No information available Flash Point: No information available No information available **Evaporation Rate:** Flammability (solid, gas): No information available No information available Upper/Lower Flammability Limits: No information available Vapor Pressure: Vapor Density: No information available Relative Density: No information available Specific Density: No information available No information available Water Solubility: Partition Coefficient: No information available Autoignition Temperature: No information available Decomposition Temperature: No information available No information available Viscosity: 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

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.

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

Ingestion

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

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

Target Organs: Kidneys, eyes, skin, respiratory system

Chronic Toxicity:

Subchronic Toxicity:

No information available

Neurological Effects:

Aspiration Hazard:

Other Adverse Effects:

No information available

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

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 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

Reactivity Hazard:

Health Hazard: 0

Fire Hazard: 0

16.3 Preparation Information

Prepared By: CATUG (Suzhou) Biotechnology, LTD

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Version: 1