

SECTION 1 - PRODUCT AND COMPANY INFORMATION

- ◆ **Product name:** shRNA Luciferase
- ◆ **Catalog number:** SH10002 & SH10012
- ◆ **Chemical name or synonyms:** none

- ◆ **Contact:**

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SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

**Substance/preparation:** Substance

No hazardous ingredient according to 29 CFR 1910.1200 Hazard Communication Standard (USA) and Directive 1999/45/EC-2001/59/EC (EU).

SECTION 3 – HAZARDS IDENTIFICATION

This product contains hazardous ingredients (Yes; No; Not Applicable or no information): **No**

This product contains hazardous carcinogens (Yes; No; N/A): **No**

This product contains hazardous ingredients to the environment. (Yes; No; N/A): **No**

SECTION 4 – FIRST AID MEASURES

- ◆ **Effects and symptoms:**

- *Inhalation* Not available.
- *Ingestion* Not available.
- *Skin contact* Not available.
- *Eye contact* Not available.
- *Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical conditions

- ◆ **First-Aid measures:**

- *Inhalation* If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- *Ingestion* Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- *Skin contact* In case of contact, immediately flush skin with plenty water. Remove contaminated clothing and shoes. Get medical attention.
- *Eye contact* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
- *Notes to physician* Not available.
- *Protection of first-aiders* Not available.

SECTION 5 – FIRE FIGHTING MEASURES

- ◆ **Flammability of the product:** May be combustible at high temperature.
- ◆ **Flash Points:** Not available.
- ◆ **Fire hazards in presence of various substances:** Not available.
- ◆ **Fire fighting media and instructions:** Use an extinguish agent suitable for surrounding fires.
- ◆ **Protective clothing (fire):** Be sure to use an approved/certified respirator or equivalent.
- ◆ **Hazardous thermal decomposition products:** Not available.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- ◆ **Personal precautions:** Safety glasses. Lab coat.
- ◆ **Environmental precautions and clean-up methods:** Use a shovel to put the material into a convenient waste disposal container.
- ◆ **Small spill and leak:** Use appropriate tools to put the spilled solid in a convenient waste disposal containers.

## SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Take measures against electrostatic loading. Exhaust fumes at source. Wash thoroughly after handling.
- ◆ **Storage:** Keep container tightly closed. Store container at -20°C to -80°C.
- ◆ **Intended use:** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific application.
- ◆ **Packaging materials**
- ◆ **Suitable:** Use original container.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

- ◆ **Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits.
- ◆ **Personal protection**
  - **Eyes:** Safety glasses.
  - **Body:** Lab coat.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Appearance**
  - **Physical State:** Lyophilisat
  - **Color:** White
  - **Odor:** Odorless
  - **Taste:** Not available
- ◆ **Molecular weight:** 16907 g.mol<sup>-1</sup>
- ◆ **Solubility:** Fully miscible in water
- ◆ **Dispersion properties:** Not available

## SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** The product is stable.
- ◆ **Conditions to avoid:** Not available.
- ◆ **Materials to avoid:** Strong oxidizing agents.
- ◆ **Hazardous polymerization:** will not occur.
- ◆ **Hazardous decomposition products:** Not available.

## SECTION 11 – TOXICOLOGICAL INFORMATION

- ◆ **Toxicity on animals:**
  - **LD50:** Not available.
  - **LC50:** Not available.
- ◆ **Chronic effects on humans:** Carcinogenic effects: classified none. by OSHA, None. by NIOSH.
- ◆ **Other toxic effects on humans:** No specific information is available in our database regarding the other toxic effects of this material for humans.
- ◆ **Carcinogenicity:** No known significant effects or critical hazards.
- ◆ **Mutagenicity:** No known significant effects or critical hazards.
- ◆ **Reproductive toxicity:** No known significant effects or critical hazards.
- ◆ **Over-exposure signs/symptoms**
  - **Inhalation:** No known significant effects or critical hazards.
  - **Ingestion:** No known significant effects or critical hazards.
  - **Skin:** No known significant effects or critical hazards.

SECTION 12 – ECOLOGICAL INFORMATION

No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

- Waste stream: Not available.
- Waste disposal method: Contact a licensed professional waste disposal service to dispose of this material. Dispose in accordance with governmental environmental regulations. Observe all federal, state, and local environmental regulations.
- European waste catalogue (EWC): Not available.
- Hazardous waste: will not occur.

SECTION 14 – TRANSPORT INFORMATION

This substance is considered to be non-hazardous for transport and air-transport.

SECTION 15 – REGULATORY INFORMATION

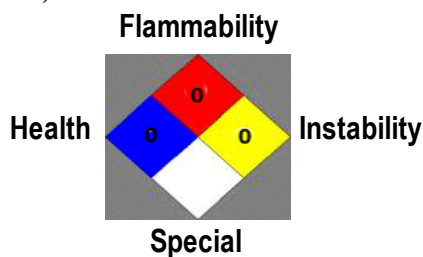
- This product is not classified according to the EU regulations.
- Safety advice: S24/25 – Avoid contact with skin and eyes.

SECTION 16 – OTHER INFORMATION

- Hazardous Material Information System (U.S.A.):

Health	1
Fire hazard	0
Reactivity	0
Personal protection	C

- National Fire Protection Association (U.S.A.):



- Other Comments:

N-No, Y-Yes, N/A-Not Applicable or no information.

The information provided is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. OZ Biosciences shall not be held liable for any damage resulting from handling or from contact with the product.