

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product name: QN2-mRNA

Contact:

Elixirgen Scientific, Inc.
855 N. Wolfe St., Suite 631
Baltimore, MD 21205
Phone: +1 443-869-5420
<https://elixirgensci.com>

SECTION 2: HAZARD IDENTIFICATION

GHS classification of the substance/mixture:

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements:

Not a hazardous substance or mixture.

Other hazards which do not result in the classification or are not covered by the GHS:

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS SUBSTANCE

Substance/Mixture: No components need to be disclosed according to the applicable regulations.

SECTION 4: FIRST AID MEASURES

Description of first aid measures.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin contact: Wash off with soap and plenty of water.
Eye contact: Flush eyes with water as a precaution.
Ingestion; Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms/effects, acute and delayed.

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed.

No data available.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the substance or mixture:

Nature of decomposition products not known.

Special protective equipment and precautions for fire-fighters:

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Avoid breathing vapors, mist or gas. For personal protection see section 8.

Environmental precautions:

No Special environmental precautions required.

Methods and materials for containment and cleaning up:

Keep in suitable, closed containers for disposal.

Reference to other sections:

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature -70°C

Storage class (TRGS 510): 12: Non Combustible Liquids

Specific end use(s)

Adapt from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls**Appropriate engineering controls:**

General industrial hygiene practice.

Personal protective equipment:**Eye/face protection**

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

Skin protection

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.

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 according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

a) Appearance	Form: crystalline, Colour: beige
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 boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available

j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available

Other safety information

No data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	No data available.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Inhalation: No data available.

Dermal: No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity Carcinogenicity

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.

NTP: 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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on

OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

No data available.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Results of PBT and vPvB assessment:

vPvB Substances not available as chemical safety assessment not required/not conducted.

Other adverse effects:

No data available.

SECTION 13: DISPOSAL INFORMATION

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION**DOT (US)**

No dangerous goods.

IMDG

No dangerous goods.

IATA

No dangerous goods.

SECTION 15: REGULATORY INFORMATION**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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 No SARA Hazards

US state regulation**Massachusetts Right To Know Components**

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

Pennsylvania Right To Know Components

Ribonucleic acids	CAS-No.	Revision Date
	63231-63-0	

New Jersey Right To Know Components

Ribonucleic acids	CAS-No. 63231-63-0	Revision Date
	63231-63-0	

California Prop. 65 Components

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

SECTION 16: OTHER INFORMATION

The information provided herein is based on sources believed to be reliable as of 3/23/2020 and pertains only to the material designated. Elixirgen Scientific, Inc. makes no warranty or representation to its completeness, accuracy, or currency, and assumes no liability resulting from its use. This material is intended for use by persons with pertinent technical skills for its intended use, the product's safe use, and the product's proper disposal. Disposal of hazardous material may be subjected to federal, state or local laws or regulations.

Restriction of use: For research use only.