

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name Validated gene Primers, miRNA Primers, universal oligos

Contact manufacturer

GeneCopoeia Inc.

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USA

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components No hazardous components

3. HAZARDS IDENTIFICATION

Emergency overview not applicable

Information pertaining to particular dangers for man and environment not applicable

Classification system

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

4. FIRST AID MEASURES

After inhalation Remove from exposure area to fresh air immediately. Get medical attention immediately.

After skin contact Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.

After eye contact Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

After swallowing Get medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents

Use means appropriate for surrounding materials.

Protective equipment Standard turnout gear ("bunker gear"). Positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions Use personal protection equipment.

Measures for environmental protection Dilute with plenty of water.

Measures for cleaning/collecting

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information No dangerous substances are released.

7. HANDLING AND STORAGE

Handling

Information for safe handling

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed.

Information about protection against explosions and fires No special measures required.

Storage

Requirements to be met by store rooms and receptacles Store in a cool dry place (prolonged storage at 4 °C).

Information about storage in one common storage facility Not required.

Further information about storage conditions Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems No further data; see item 7.

Components with limit values that require monitoring at the workplace

Area ventilation is generally adequate.

Additional information The lists that were valid during the creation were used as basis.

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment No respiratory protection will be needed under normal industrial operating conditions.

Protection of hands Protective gloves.

Material of gloves Synthetic gloves.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection Safety glasses should be the minimum eye protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Form Translucent or opaque flake, film or powder like substance
Color Colorless
Odor No data available

Change in condition

Melting point/melting range No data available
Boiling point/boiling range No data available

Flash point No data available

Danger of explosion Do not present an explosion hazard.

Vapor pressure at 20°C No data available

Density at 20°C No data available

Solubility in / Miscibility with Water Soluble

pH-value at 20°C No data available

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided

Prolonged storage. Keep at 4 °C.

Materials to be avoided

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition No dangerous decomposition products known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Primary irritant effect

On the skin May cause skin irritation for susceptible persons.

On the eye May cause eye irritation for susceptible persons.

Sensitization No sensitizing effects known.

Target organs Not applicable.

12. ECOLOGICAL INFORMATION

Generally not hazardous for water.

13. DISPOSAL CONSIDERATIONS

Observe all Federal, State and Local Regulations.

14. TRANSPORT INFORMATION

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard Class	No information available
Subsidiary Class	No information available
Packing group	No information available

15. REGULATORY INFORMATION

UNITED STATES:

TSCA:

This product is solely for research and development purposes only and may not be used, processed or distributed for a commercial purpose. It may only be handled by technically qualified individuals.

CANADA:

DSL/NDSL: Not determined.

EUROPEAN UNION:

PRODUCT RISK PHRASES: None assigned.

PRODUCT SAFETY PHRASES: Not applicable.

PRODUCT CLASSIFICATION: Not classified

16. OTHER INFORMATION

Abbreviations

N/A - Data is not applicable or not available

SARA - Superfund and Reauthorization Act

HMIS - Hazard Material Information System

WHMIS - Workplace Hazard Materials Information System

NTP - National Toxicology Program

OSHA - Occupational Health and Safety Administration

IARC - International Agency for Research on Cancer

PROP 65 - California Safe Drinking Water and Toxic Enforcement Act of 1986

EINECS - European Inventory of Existing Commercial Chemical Substances

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End of Safety Data Sheet