

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Synthetic gene

Company Name & Address: BIONEER CORPORATION

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Korea

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Deoxyribonucleic acid do not contain any animal products.

Description

Deoxyribonucleic acid in dry format. Volume of each product packages : 2ml tubes

3. HAZARDS IDENTIFICATION

Primary routes of entry

Skin or eye contact from splashes.

Inhalation of the vapor at room temperature is unlikely.

The toxicological properties of those materials have not been fully investigated.

Ingestion

May cause irritation of the digestive tract.

Skin contact

May cause skin irritation.

Eye contact

May cause irritation.

Evidence for reproductive toxicity, carcinogenicity and mutagenicity

No data available.

4. FIRST AID MEASURES

After skin contact

Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing.

After eye contact

Rinse opened eyes for several minutes under running water. Get medical attention if eyes become irritating.

After swallowing (ingestion)

Rinse mouth. Drink plenty of water. Get medical attention if irritating or symptoms occur.

5. FIRE FIGHTING MEASURES

Fire and explosion hazards

Gives off irritating or toxic fumes in a fire.

Suitable extinguishing media

Water spray, carbon dioxide, extinguishing powder or foam.

Protective equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use proper personal protective equipment as indicated in Section 8.

Environmental precautions

Do not allow entering sewers, surfaces or ground water.

Measures for cleaning/collecting

Sweep up or absorb material, then place it into container for disposal. Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling

No special measures necessary. Good laboratory technique should be used when handing.

Storage

No special measures necessary. Store at - 20

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Eye protection

Safety goggles (glasses).

Skin protection

Protective gloves, a lab coat.

Hygiene measures

Keep away from foodstuffs and beverages.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working with products.

Breathing equipment

Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Flash point

Powder. No data available.

Color Explosive properties

White. No data available.

Odor Vapor pressure

Odorless. No data available.

Boiling point: pH

No data available. 7.0

10. STABILITY AND REACTIVITY

Stability

Stable, under normal handing and storage conditions.

Decomposition

No data available.

Conditions to avoid

Contact with strong oxidants, fire.

11. TOXICOLOGICAL INFORMATION

The toxicological properties of those materials have not been fully investigated.

Irritating to eyes.

Irritating to skin.

Harmful if swallowed.

Preparations may cause allergic reactions in certain sensitive individuals.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Burn the material in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal state and local environmental regulations.

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

R22

Harmful if swallowed.

R36

Irritating to eyes.

R38

Irritating to skin.

S36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features. BIONEER is not held liable for any damage resulting from handing or from contact with the above products.