

**Material Safety Data Sheet**

Version No.: 3 (Rev. date : 2025-04-10)

***GreenStar™* Nucleic Acid Staining Solution I****1. Product and company identification****Product details**Product Name : *GreenStar™ Nucleic Acid Staining Solution I*

Product Number : C-9036

**Use of the Product**

Identified uses : Laboratory chemical/analysis

**Company**

BIONEER CORPORATION

71, Techno 2-ro, Yuseong-gu, Daejeon 34013, Republic of Korea

82-42-939-6474

**2. Hazards identification****Hazard description**

- Irritant to eyes, respiratory system and skin
- Harmful in contact with skin
- Toxic if swallowed

**Information concerning particular hazards for humans and environment:**

- The product does not have to be labeled due to the calculation procedure of the 'General Classification guideline for preparations of the EU' in the latest valid version.

**Classification system**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**NFPA ratings (Scale 0-4)**

Health = 1

Fire = 1

Reactivity = 0



GHS label :

**3. Composition/information on ingredients**

**Chemical characterization**

Description : Pellet, consisting of the following components:

| CAS No  | Component name     | weight(%) |
|---------|--------------------|-----------|
| 67-68-5 | Dimethyl sulfoxide | 35-40     |
|         | GreenStar          | <0.1      |

**Other components:**

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive. 1999/25/EC.

**4. First aid measures**

**Skin contact** : Wash off immediately with plenty of water

**Eye contact** : Irrigate thoroughly with plenty of water, also under the eyelids.

**Ingestion** : Never give anything by mouth to an unconscious person

**Inhalation** : Move to fresh air

**5. Fire-fighting measures****Fire and explosion hazards**

Can be disregard.

**Suitable extinguishing agents**

Use dry chemical, CO2 or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.

**6. Accidental release measures****Person-related safety precautions**

Use personal protective equipment

**Measures for cleaning**

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

**7. Handling and storage****Precautions for safe Handling**

Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage , Including any incompatibilities**

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

Recommended storage temperature: 4°C , Light sensitive

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## 8. Exposure controls / personal protection

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**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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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)

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## 9. Physical and chemical properties

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**General information**

|                               |                |
|-------------------------------|----------------|
| Physical state                | Viscous pellet |
| Color                         | Colorless      |
| Odor                          | odorless       |
| Boiling point / Boiling range | N/A            |
| Melting point / Melting range | N/A            |
| Freezing point                | N/A            |
| Vapor Pressure                | N/A            |
| Vapor Density                 | N/A            |
| Volatile %                    | N/A            |
| Flash point                   | N/A            |
| Autoignition Temp             | N/A            |
| specific gravity              | N/A            |
| Density                       | N/A            |
| Solubility                    | N/A            |

N/A = not available.

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## 10. Stability and Reactivity

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**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:** Strong oxidizing agents and strong acid, Acid chlorides, Strong reducing agents, Phosphorus halides

**Hazardous decomposition products:**

Hazardous decomposition products formed under fire conditions – Carbon oxides, Sulphur oxides

Other decomposition products – No data available

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## 11. Toxicological information

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### Information on toxicological effects

Acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity – single exposure: No data available

Aspiration hazard: No data available

Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Signs and symptoms of exposure: 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.

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## 12. Ecological information

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Not data available.

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## 13. Disposal considerations

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### Waste treatment methods Product:

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

Contaminated packaging: Dispose of as unused product.

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## 14. Transport information

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UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Special precautions for user:

Not classified as dangerous in the meaning of transport regulations

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## 15. Regulatory information

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### Indication of danger

Not hazardous

### Risk phrases

No information available

### Safety phrases.

No information available

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## 16. Other information

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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 handling or from contact with the above products.

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