Material Safety Data Sheet

Version No.: 4.0(Rev. date : 2026-11-20)

GreenStar™ Nucleic Acid Staining Solution I

1. Product and company identification

A. Product Name : *GreenStar*™ Nucleic Acid Staining Solution I (C-9036)

B. Recommendation Use : Research Use Only

C. Supply Information : Bioneer Corporation, 71, Techno 2-ro, Yuseong-gu, Daejeon 34013, Republic of Korea

D. Telephone : +82-42-1588-9788

2. Hazards identification

A. Classification of the substance or mixture: Not a hazardous substance or mixture

B. Label elements: Not a hazardous substance or mixture.

Pictogram:



Signal word : Warning

C. Other Hazards: N/A

3. Composition/information on ingredients

Chemical Name	Cas Number	Weight percent
Dimethyl sulfoxide	67-68-5	35 – 40%
GreenStar		<0.1%

4. First aid measures

Description of first aid measures

If inhaled : If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact : Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

If swallowed : Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed :

The most important known symptoms and effects are described in the labelling

Indication of any immediate medical attention and special treatment needed : No data available

5. Fire-fighting measures

Extinguishing media

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

Special hazards arising from the substance or mixture : Carbon oxides, Sulphur oxides

Advice for firefighters: Wear self contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

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

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up:

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities:

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

Recommended storage temperature: 4°C, Light sensitive

8. Exposure controls / personal protection

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).

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Form: Liquid

Colour: Red orange

Odour: No data available

Odour threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: No data available

Water solubility: No data available

Partition coefficient: n-octanol/water: No data available

Autoignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Other safety information: No data available

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 : 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

11. Toxicological information

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

Specific target organ toxicity – repeated 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.

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 : No data available

Other adverse effects : No data available

13. Disposal considerations

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 : No data available

Other adverse effects : No data available

14. Transport information

Not regulated in the meaning of transport regulations.

IMDG : Non-hazardous for sea freight.

ADR : Non-hazardous for road transport.

RID : Non-hazardous for rail transport.

ICAO/IATA : Non-hazardous for air transport.

UN Number: Not applicable

UN Proper Shipping Name: Not applicable

Transport hazard class: Not applicable

Packing group: Not applicable

Marine pollutant: Not applicable

The special vehicle Safety measures: Not applicable

15. Regulatory information

Regulation by Industrial safety and health act : Not applicable

Regulation by chemicals control act : Not applicable

Regulation by Safety control of dangerous substance act : Not applicable

Regulation by the waste control act : Not applicable

Regulation by other domestic and foreign regulatory : Not information available

16. Other information

Created : 2018-01-29 (YYYY-MM-DD)
Last updated : 2026-11-20 (YYYY-MM-DD), version 4.0
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