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Revision: 1

SDS prepared by: Amplyus

SECTION 1 — IDENTIFICATION

Product name: SeeGreen™ Nucleic Acid Stain

Catalog or product number: RG-1550-10

Product use: This product is for education and research use only

Supplier:

Amplyus LLC

1770 Massachusetts Avenue, Suite 167

Cambridge, MA 02140

Phone: 1-781-990-8727 (emergency number during USA East Coast business hours)

Fax: 888-317-0512

SECTION 2 — HAZARDS IDENTIFICATION

2.1 Classification according to EC Directives 67/548 / EEC (DSD) and 1999/45 / EC (DPD):

Not a hazardous substance or mixture according to EC Directives 67/548 / EEC (DSD) and 1999/45 / EC (DPD)

2.2 Classification according to Regulation (EC) No 1272/2008 (CLP):

Signal word: Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008

H-Statements: Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008

2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

2.4 Additional hazards for humans and the environment:

Possible hazardous physicochemical effects: Unknown

Possible adverse effects on humans and possible symptoms: No data available

Possible harmful effects: No data available

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Aqueous solution with inorganic and organic components.

Components

Ingredients	%	CAS Number
Dimethyl sulfoxide	<65%	67-68-5
Propylene glycol	<35%	57-55-6
SeeGreen™ Nucleic Acid Stain	<1%	n/a

SECTION 4 — FIRST AID MEASURES

General information: No special measures required. If skin irritation or other symptoms develop, consult a physician. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes, carefully clean before reuse.

Eye contact: Remove contact lenses. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact: Wash off immediately with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

Ingestion: Rinse mouth with water. Seek medical attention and appropriate follow-up. Do not induce vomiting.

SECTION 5 — FIRE-FIGHTING MEASURES

Conditions of flammability: Not flammable

Suitable extinguishing media: Dry chemical, CO₂, water spray, or alcohol resistant foam.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary

Hazardous combustion products: Carbon dioxide, carbon monoxide, sulfur oxides

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Prevent skin/eye contact. Wear personal protective equipment.

Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. For disposal see section 13.

Methods and materials for containment and cleaning up: Soak up with absorbent material and dispose. Clean contaminated surfaces with water.

SECTION 7 — HANDLING AND STORAGE

Precautions for safe handling: No special handling measures required. Inhalation of aerosols, contact with eyes, skin and clothing as well as prolonged or repeated exposure may cause irritation. Ensure that the working area is well ventilated. For precautions see section 2.

Conditions for safe storage: Recommended storage temperature +4 °C. Protected from light. Keep container tightly closed and stored upright to prevent leakage. Always keep in containers of the same material as the original.

Incompatible products: N/A

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameters: Contains no relevant quantities of substances with occupational exposure limit values that have to be monitored at the workplace according to TRGS 900.

Engineering controls: Not required. General room ventilation is adequate for use of this product

Personal protective measures: Wash hands thoroughly after handling. Do Not eat, drink or smoke when handling this product.

Personal protective equipment:

- **Skin protection:** protective gloves, appropriate protective clothing
- **Eye protection:** safety glasses with side shields

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Faint orange to yellow

Odor: No data available

Odor threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Boiling point: No data available

Flash point: No data available

Evaporation rate: No data available

Ignition temperature: No data available

Autoignition temperature: No data available

Lower explosion limit: No data available

Upper explosion limit: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density (water = 1): No data available

Water solubility: No data available

Viscosity: No data available

SECTION 10 — STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Incompatible materials to avoid: Strong acids or bases, strong oxidizers, extreme temperature or pressure conditions.

Hazardous decomposition products: Sulfur oxides, carbon dioxide, carbon monoxide

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute toxicity LD/LC50 values:

Inhalation: Aerosols may cause allergic type reactions in sensitized individuals.

Ingestion: Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract.

Skin and eye contact: Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.

Chemical name: Dimethyl sulfoxide

Parameter	Value	Species
LD ₅₀ oral	145000 mg/kg	Rat
LD ₅₀ dermal	4000 mg/kg	Rat

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Respiratory or skin sensitization: No data available.

Subacute and chronic toxicity: May cause injury to the liver and kidneys.

Teratogenicity: No data available

Mutagenicity: No cytotoxic or mutagenic effects could be detected.

Parameter	Value	Species	Method	Remarks
<i>In vitro</i> bacterial mutation test	0.5-50 mg/plate	Salmonella typhimurium TA97/98/100/102	Ames test	Non-mutagenic

Carcinogenicity: No data available.

Reproductive toxicity: No toxicological data are available on the components of the product

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

PBT assessment / vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects: None known

SECTION 13 — DISPOSAL CONSIDERATIONS

Product: Dispose of waste in accordance with applicable national, regional, or local regulations. Do not allow product to reach ground water, water course, or sewage system.

Contaminated packaging: Dispose of packaging in accordance with applicable national, regional, or local regulations. Packaging which is not completely emptied must be disposed of in the form as determined by the local waste disposal authority.

SECTION 14 — TRANSPORT INFORMATION

This substance is considered to be Non-hazardous for transport

SECTION 15 — REGULATORY INFORMATION

SARA 302/304 (40CFR355.30/40CFR355.40): This material does not contain any components with a section 302 EHS TPQ or a section 304 EHS RQ

SARA 313: Substance not listed

SARA 311/312: Chronic health hazard

California Proposition 65: Substance not listed

Massachusetts right to know: Substance not listed

Regulation (EC) No 1907/2006: Substance safety assessments (CSA) according to Article 14 (1) of Regulation (EC) No 1907/2006 (REACH) for the components of the product are neither banned nor restricted.

Directives 67/548 / EEC (DSD) and 1999/45 / EC (DPD): Not a hazardous substance or mixture, see section 2.

Regulation (EC) No 1272/2008 (CLP): Not a hazardous substance or mixture, see section 2

Pictograms: None

Signal word: Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008

H-Statements: Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008

Special labeling of certain preparations: Neither banned nor restricted

Approvals and / or restrictions of use: Neither banned nor restricted

Directive 1999/13 / EC (VOC Directive) on the limitation of VOC emissions: Neither banned nor restricted

SECTION 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 and shall not establish a legally valid contractual relationship. Amplyus LLC is not held liable for any damage resulting from handling or from contact with the above mentioned product