

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RediStain WormDye Live/Dead *0.2 mM Solution in DMSO*
PRODUCT #: 9438, 9442
SYNONYMS: NucGel XVIII Nucleic Acid Stain; SYTOX® Green Nucleic Acid Stain [SYTOX Green] [SYBR 36]
INDICATION/USE: Reagent for diagnostic cell study,
 For research use only, not for human or animal diagnostic or therapeutic uses.

COMPANY ADDRESS: NemaMetrix, Inc.
 44 W. 7th Ave
 Eugene, OR 97401

EMERGENCY PHONE: (541) 912-9944
PHONE: (844) 663-8749
EMAIL: support@nemamatrix.com

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION SIGNAL WORD and Pictogram: Warning 

HAZARD STATEMENTS AND SYMBOLS: H227. Combustible Liquid as solvent

GHS LABELING/PRECAUTIONARY STATEMENTS: P210. Keep away from heat/sparks/open flames. No smoking
 P280. Wear protective gloves, eye protection/ face protection.
 P370+P378. In case of fire use water spray, carbon dioxide, dry chemical powder or appropriate foam
HAZARD NOT OTHERWISE CLASSIFIED: Rapidly absorbed through skin..

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | EINECS-No | Weight % |
|--|---------|-----------|----------|
| Component 1: dimethylsulfoxide | 67-68-5 | 200-664-3 | 95-100 |
| Component 2: RediStain WormDye Live/Dead | N/A | N/A | 0.1-5.0 |

The product contains no substances which at their given concentration, are considered to be hazardous to health.

MOL. FOR. Component 2: N/A

MOL WT. Component 2 963.58 g/mol

SECTION 4: FIRST AID MEASURES

NOTES TO PHYSICIANS/ FIRST AID PROVIDERS: Treat symptomatically. Avoid prolonged exposure. Wear protective clothing.

EYES: If eye contact occurs, wash affected area with water for 15 minutes and seek medical advice.

SKIN: If skin contact occurs, wash affected area with water for 15 minutes and seek medical advice.

INGESTION: If swallowed, rinse mouth out with water provided the person is conscious and seek medical advice.

INHALATION: If product is inhaled, move individual to fresh air. If breathing becomes difficult, seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

GENERAL INFO : As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

EXTINGUISHING MEDIA: In case of fire use water spray, carbon dioxide, dry chemical powder or appropriate foam.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use appropriate protective equipment. Avoid breathing dust and vapors.

Methods for clean up: Absorb spills with a appropriate material. Collect and dispose of all waste in appropriate container.

Environmental Precautions: No special environmental precautions needed.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid ingestion & inhalation. Do not breathe dust. Avoid contact with skin, eyes & clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

OTHER PRECAUTIONS: Keep container tightly closed when not in use. Store at -20°C. Protect from light. Desiccate.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS/CONTROL: This products does not contain any substances with occupataional exposure limits established

ENGINEERING CONTROLS: Use adequate ventilation to keep airborne concentrations low. Safety shower and eye bath.

RESPIRATORY PROTECTION: Follow OSHA respirator regulations found in 29CFR 1910.134 or European Std EN 149
Always use NIOSH N95 or European Standard EN 143 approved respirator when necessary.

EYE PROTECTION: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

SKIN PROTECTION: Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

OTHER PROTECTIVE CLOTHING: Wear appropriate protective clothing to prevent exposure.

WORK HYGIENIC PRACTICES: Wear compatible chemical-resistant gloves to prevent skin exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|----------------|
| APPEARANCE: | Liquid. |
| ODOR: | Not available. |
| ODOR THRESHOLD: | Not available |
| pH AS SUPPLIED: | Not available. |
| MELTING POINT: | Not available |
| FREEZING POINT: | Not available |
| FLASH POINT | Not available |
| BOILING POINT and RANGE: | Not availalbe |
| EVAPORATION RATE: | Not available. |
| FLAMMABILITY (SOLID,GAS): | Not available. |
| Upper/lower flammability or Explosive limits: | Not available. |
| VAPOR PRESSURE (mmHg): | Not available. |
| VAPOR DENSITY (AIR = 1): | Not available. |
| RELATIVE DENSITY: | Not available |
| SPECIFIC GRAVITY (H2O = 1): | Not available. |
| SOLUBILITY IN WATER: | Not available. |
| PARTITION COEFFICIENT: | Not available. |
| AUTOIGNITION TEMP: | Not available. |
| DECOMPOSITION TEMP: | Not available. |
| VISCOSITY: | Not available. |
| EXPLOSIVE PROPERTIES: | Not available. |
| OXIDIZING PROPERTIES: | Not available. |

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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Stable.
CHEMICAL STABILITY: Stable under normal storage temperatures and conditions.
INCOMPATIBILITY (MATERIAL TO AVOID): Avoid moisture, strong bases and strong oxidizing agents.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No decomposition if used according to specifications.
HAZARDOUS POLYMERIZATION: Polymerization won't occur.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS NUMBER: None known
ACUTE TOXICITY: None Known
LD50/LC50 : DMSO only : 14500 mg/kg Oral LD50
Inhalation/Dermal: DMSO only: >40000 mg/kg bw dermal and >5000 mg/l inhalation
SKIN CORROSION /IRRITANT: None known - Mild skin irritation.
Components of the product may be absorbed into the body through the skin.
EYE DAMAGE /IRRITANT: None known – Mild eye irritant
RESPIRATORY IRRITANT: None known - may cause irritation in susceptible people
GERM CELL MUTAGENICITY: None known - Substances which cause concern for man owing to possible mutagenic effects but which the available data isn't adequate to make a satisfactory assessment.
CARCINOGENITY: None known (Not listed by NTP, IARC or OSHA)
EPIDEMIOLOGY: None known
REPRODUCTIVE /TERATOGEN: None known
NEUROTOXICITY: None known
SPECIFIC TARGET ORGAN
Toxicity single exposure: None known
Toxicity repeated exposure: None known
ASPIRATION HAZARD: None known
SIGNS/SYMPTOMS of EXPOSURE: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated

SECTION 12: ECOLOGICAL INFORMATION

Do not allow product to reach ground water or water course

ECTOTOXICITY: No information available
MOBILITY: No information available
BIODEGRADATION: No information available
BIOACCUMULATION: No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Observe all federal, state, and local environmental regulations for proper disposal.
RCRA HAZARD CLASS: Not available

SECTION 14: TRANSPORT INFORMATION

DOT (U.S.): HAZARD CLASS: DOT unrestricted. This substance is considered to be non-hazardous for transport
IMDG: HAZARD CLASS: This substance is considered to be non-hazardous for transport
IATA: HAZARD CLASS: This substance is considered to be non-hazardous for transport

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SECTION 15: REGULATORY INFORMATION

U.S. TSCA (TOXIC SUBSTANCE CONTROL ACT): Only the DMSO is listed on TSCA inventory, for R&D use only
SARA 302 COMPONENTS: Not listed
SARA 311/312 HAZARD CATEGORIES: Not listed
SARA 313 REPORTABLE INGREDIENTS: Not listed

WHMIS Hazard Class

B3 Combustible liquid



INTERNATIONAL REGULATIONS:

EEC EINECS Number:

Not identified

EEC Risk Statements / other

Not determined / none

SECTION 16: OTHER INFORMATION

NFPA & HMIS HAZARD CLASSIFICATION

HEALTH: 1.
FLAMMABILITY: 2.
REACTIVITY: 0.

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a qualified individual experienced in handling potential hazardous chemicals. The information above is believed to be correct and represents the best information currently available to us but does not purport to be all inclusive and shall be used only as a guide. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way is NemaMetrix liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if NemaMetrix has been advised of the possibility of such damages.