

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** RediStain WormDye Neuro Red\*2mg/mL Solution in DMF\*  
**PRODUCT #:** 9437  
**SYNONYMS:** 1,1'-Dioctadecyl-3,3,3',3'-tetramethylindocarbocyanine perchlorate  
**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:** DANGER



**HAZARD STATEMENTS AND SYMBOLS:**

H226. Combustible Liquid as solvent (Category 3)  
 H332. Acute toxicity, Inhalation (Category 4)  
 H312. Acute toxicity, Dermal (Category 4)  
 H319. Eye irritation (Category 2A)  
 H360. Reproductive toxicity (Category 1B)

**GHS LABELING/PRECAUTIONARY STATEMENTS:**

P210. Keep away from heat/sparks/open flames. No smoking  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER  
 P303 + P361 + P353 - IF ON SKIN: Take off all contaminated clothing.  
 Rinse skin with water/shower  
 P304 + P340 - IF INHALED: Remove victim to fresh air  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 P202 - Do not handle until all safety precautions have been  
 P280 - Wear gloves/protective clothing/eye protection/face protection  
 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:**

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	EINECS-No	Weight %
Component 1: DMF (Dimethylformamide)	62-12-2	200-679-5	95-100
Component 2: RediStain WormDye Neuro Red	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:** C<sub>59</sub>H<sub>97</sub>ClN<sub>2</sub>O<sub>4</sub>

**MOL WT. Component 2** 933.88 g/mol

**SECTION 4: FIRST AID MEASURES**

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

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**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.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**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.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**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.

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## SECTION 7: HANDLING AND STORAGE

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**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 RT. Protect from light. Desiccate.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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**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.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**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.

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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

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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.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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RTECS NUMBER: None known  
ACUTE TOXICITY: None Known  
LD50/LC50 : DMF only : 2000 mg/kg/Rat, Oral N/A  
Inhalation/Dermal: DMF only: Rat - 4 h - 9 - 15 mg/ for inhalation, N/A dermal  
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

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## SECTION 12: ECOLOGICAL INFORMATION

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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

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## SECTION 13: DISPOSAL CONSIDERATIONS

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

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## SECTION 14: TRANSPORT INFORMATION

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DOT (U.S.): HAZARD CLASS: FOR DMF ONLY: Class 3  
IMDG: HAZARD CLASS: III  
IATA: HAZARD CLASS: UN2265

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## SECTION 15: REGULATORY INFORMATION

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U.S. TSCA (TOXIC SUBSTANCE CONTROL ACT): Only the DMF 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

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## SECTION 16: OTHER INFORMATION

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NFPA & HMIS HAZARD CLASSIFICATION

HEALTH: 2.

FLAMMABILITY: 2.

REACTIVITY: 0.

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*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.*