Material Safety Data Sheet

4',5'-DIBROMOFLUORESCEIN (RXSOL-69-5960-320)

1. Product and Company Identifaction

Product Name	4',5'-DIBROMOFLUORESCEIN
Part Number	RXSOL-69-5960-320

Synonyms: C.I. 45370.1, Solvent Red 72, 4',5'-Dibromo-3',6'-dihydroxyspiro[isobenzofuran-1(3H), 9'[9 H] xanthen]-3-one; Acid Orange 11; Fluorescein, 4'5'-dibromo-

Weight: 490.11. **Formula:** C20H10Br2O5

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Name of Substance	Cas Number	Percent
4',5'-Dibromofluorescein	596-03-2	100%

3. Hazards Identification

SignalWord	Warning
Hazard Statements	H301: Toxic if swallowed.
Precautionary statements	P264: wash skin thoroughly after handling P330: Rinse Mouth P270: Do not drink, eat, smoke, when using this product. P405: Store locked up. P301 + P310:If Swallowed: Immediately Call Poison Center or doctor/physician P321: Specific treatment (see supplemental first aid instructions) P501: Dispose of contents/container to an approved waste disposal plant.
HMIS Classification:	Health hazard 2, Flammability 0, Physical hazards 0
NFPA Rating:	Health hazard 2, Fire 0, Reactivity hazard 0
Potential Health Effects:	**Eye**: May cause eye irritation. **Skin**: May cause skin irritation. **Ingestion:** May cause irritation of the digestive tract. **Inhalation:** May cause irritation of respiratory tract. The toxicological properties of this material have not been fully investigated.

4. First Aid Measures

Eye Contact	Flush eyes with plenty of water as a precaution.
Skin Contact	If contact, flush skin with plenty of soap & water.

Ingestion:	If victim is conscious and alert, give water to rinse mouth. Do NOT induce vomiting. NEVER give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air immediately. If not breathing, give artificial respiration.
Notes to Physician:	Treat symptomatically and supportively.

5. Fire-fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Special Hazards Arising:	Carbon oxides, hydrogen bromide.
Extinguishing media	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
Flash Point:	Not available
Auto-ignition Temp:	Not available
Explosion, Limits:	Not available

6. Accidental Release Measures

General Information:	Use proper PPE as indicated in Section 8.
Spill/Leaks:	Clean up spills immediately, observing precautions in the Protective Equipment Section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

7. Handling and Storage

Handling	Wash thoroughly after handling. Remove contaminated clothing ans wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Storage	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure controls and personal protection

Engineering Control

Facilities utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

CHEMICAL NAME	ACGIH	NIOSH	OSHA - FINAL/Vacated PELs
4,'5'-Dibromofluorescein	None listed	None listed	None listed

Personal Protective Equipment:

Eyes: 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:** Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure. **Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN149 must be followed whenever workplace conditions warrant a respirator use.



Gloves



Suit

9. Physical and chemical properties

State :	Powder
Appearance:	Orange
Odour	None
pH	No Data
Vapor Pressure & Density:	No Data
Evaporation Rate:	No Data
Viscosity:	No Data
Boiling Point:	760.00mm Hg
Melting Point:	270-273°C
Decomposition Temperature:	No Data
Solubility:	Slightly soluble
Density:	No Data

10. Stability and reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, dust generation, strong oxidants.
Incompatibilities:	Oxidizing agents
Hazardous Decomposition Products:	see section 5

11. Toxicological information

RTECS#:	LM5200000 LD50: Oral rat 198 mg/kg
Carcinogenicity:	CAS# 596-03-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Reproductive Effects:	Maternal effects: ovaries/fallopian tubes by orl-rat TDLo: 10,500 mg/kg (female 21D pre).
Mutagenicity:	Mutation in microorganisms-Salmonells typhimurium = 100ng/plate

12. Ecological information

ECOLOGICAL INFORMATION:	No information available.

13. Disposal considerations

Waste treatment Method	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. .**RCRA P-Series:** None listed. **RCRA U-Series:** None listed.

14. Transport information

DOT, TDG , IATA, IMDG/IMO	Not hazardous for transport

15. Regulatory information

SARA 311/312:	Acute Health Hazard
Section 302 (RQ & TPQ)	None of the chemicals in this material have an RQ or TPQ.
Section 313	No chemicals are reportable under Section 313.
STATE	CAS# 596-03-2 is not present on state lists from CA, MN, MA, FL.
PA Right to Know:	4',5'-Dibromo-3',6'-dihydroxyspiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one CAS#596-03-2
NJ Right to Know:	4',5'-Dibromo-3',6'-dihydroxyspiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one CAS#596-03-2 California Prop.65 components: None of the chemicals are known to cause cancer, birth defects, or any other reproductive harm.

EUROPEAN/INTERNATIONAL REGULATIONS European Labeling in Accordance with EC Directives

WGK (Water Danger/Protection)	CAS# 596-03-2: No information available.
CanadaDSL.NDSL	CAS# 596-03-2 is listed on Canada's DSL List
Canada - WHMIS	This product has a WHMIS classification of D2B.

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be 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 **Rx Marine International** has been advised of the possibility of such damages.