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2',7'-DICHLOROFLUORESCEIN ACS

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION:

Synonyms: 2',7'-Dichloro-3,6-fluorandiols; 2',7'-Dichloro-3',6'-dihydroxyspiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one

CAS No.: 76-54-0

Molecular Weight : 401.20

Chemical Formula: C₂₀H₁₀Cl₂O₅

2.COMPOSITION/ INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
2',7'-Dichlorofluorescein	76-54-0	100%	No

3. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Orange to red brown powder. **Warning!** May cause digestive and respiratory tract irritation. Causes eye and skin irritation. May cause dermatitis. The toxicological properties of this material have not been fully investigated.

Target Organs: none

Potential Health Effects

Eye: May cause eye irritation

Skin: May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin discoloration.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause irritation of respiratory tract.

Chronic: No information found.

4. FIRST AID MEASURES:

Eyes : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. **NEVER** give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician : Treat symptomatically and supportively.

5. FIREFIGHTING 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.

Extinguishing Media : In case of fire, use water, dry chemical, or appropriate foam.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Explosion Limits, Lower / Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Reactivity: 0.

6. ACCIDENTAL RELEASE MEASURE:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spill/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Reduce airborne dust and prevent scattering by moistening with water. Clean up spills immediately, observing precautions in the Protective Equipment Section. Provide ventilation.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits:

CHEMICAL NAME	ACGIH	NIOSH	OSHA - FINAL PELs
2',7'-Dichlorofluorescein	none listed	none listed	none listed

OSHA Vacated PELs: 2',7'-Dichlorofluorescein: No OSHA Vacated PELs are listed for this chemical.

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.

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 must be followed whenever workplace conditions warrant a respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Orange to red-brown powder
Odor	Odorless
pH	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Viscosity	Not available
Boiling Point	Not available
Freezing/Melting Point	280 deg C (decomposes)

Decomposition Temperature	Not available
Solubility	Insoluble in water, soluble in alcohol
Specific Gravity	Not available

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, strong oxidants.

Incompatibilities with Other Materials: Strong oxidizers.

Hazardous Decomposition Products: Hydrogen chloride, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported

11. TOXICOLOGICAL INFORMATION:

RTECS#: CAS# 76-54-0 unlisted

LD50/LC50: unavailable

Carcinogenicity: CAS# 76-54-0: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Neurotoxicity: Not available

Mutagenicity: Not available

Other Studies: No data available.

12. ECOLOGICAL INFORMATION:

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. DISPOSAL CONSIDERATIONS:

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 information.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

14. TRANSPORT INFORMATION:

Not regulated.

15. REGULATORY INFORMATION:

TSCA CAS# 76-54-0 is listed on the TSCA Inventory.

Health & Safety Reporting List None of the chemicals are on the Health & Safety Report List.

Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule.

Section 12b None of the chemicals are listed under TSCA Section 12b.

SARA

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.

CLEAN AIR ACT This material does not contain any hazardous air pollutants. This material does not contain any Class 1 & 2 Ozone depletors.

CLEAN WATER ACT None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the

CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA None of the chemicals in this product are considered highly hazardous by OSHA.
STATE CAS# 76-54-0 is not present on state lists from CA, PA, MA, MN, FL, or NJ.
California Prop 65: No significant Risk Level: None of the chemicals in this product are listed.

EUROPEAN/INTERNATIONAL REGULATIONS
European Labeling in Accordance with EC Directives

Hazardous Symbols: Not available.

Risk Phrases: Not available.

Safety Phrases: Not available.

WGK (Water Danger/Protection)

CAS#76-54-0: No information available.

Canada – DSL/NDSL

CAS#76-54-0 is not listed on Canada’s DSL List.

Canada – WHMIS

WHMIS is not controlled under WHMIS.

CAS#76-54-0 is not listed on Canada’s Ingredient Disclosure List.

Exposure Limits

16. DISCLAIMER INFORMATION:

DISCLAIMER

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