

# SAFETY DATA SHEET

Creation Date 29-Oct-2010

Revision Date 24-Dec-2021

**Revision Number** 4

## 1. Identification

## **Product Name**

## 2`,7`-Dichlorofluorescein

Cat No. :	AC191530000; AC191530050; AC191530250; AC191531000
CAS No	76-54-0
Synonyms	2`,7`-Dichloro-3`,6`-dihydroxyspiro[isobenzofuran-1(3H),9`-[9H]xanthen]-3-one
Recommended Use	Laboratory chemicals.
Uses advised against	Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Combustible dust

Category 2 Category 2 Category 3

Yes

## Label Elements

#### Signal Word Warning

#### Hazard Statements

May form combustible dust concentrations in air

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

## Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

## Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

## Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

## Storage

Store in a well-ventilated place. Keep container tightly closed

#### Store locked up

## Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one,	76-54-0	>95
2',7'-dichloro-3',6'-dihydroxy-		

## 4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
Inhalation	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention.
Most important symptoms and effects	No information available.
Notes to Physician	Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

## **Specific Hazards Arising from the Chemical**

Fine dust dispersed in air may ignite. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Chlorine. Hydrogen chloride gas.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health Flammability 2 1		Instability 0	Physical hazards N/A
		6. Accidental re	lease measures	
Personal	Precautions	Use personal protective ec formation. Avoid contact w		dequate ventilation. Avoid dust
Environm	nental Precautions	Avoid release to the enviro		
Methods Up	for Containment and	Clean Keep in suitable, closed co containers for disposal.	ntainers for disposal. Sweep u	p and shovel into suitable
		7. Handling	and storage	
Handling				ure adequate ventilation. Avoid Avoid ingestion and inhalation.
Storage.		Keep containers tightly clo Materials. Strong oxidizing	sed in a dry, cool and well-ven g agents. Strong acids.	tilated place. Incompatible
	8	. Exposure controls	/ personal protecti	on
Exposure	e Guidelines		ain any hazardous materials w gion specific regulatory bodies.	
Engineer	ing Measures	•	n, especially in confined areas se to the workstation location.	. Ensure that eyewash stations
<u>Personal</u>	Protective Equipmen	<u>t</u>		
Eye/fa	ace Protection	Wear appropriate protectiv	e eyeglasses or chemical safe	ty goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard<br/>EN166.Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.Respiratory ProtectionNo protective equipment is needed under normal use conditions.Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

**Physical State** Appearance Odor **Odor Threshold** pН Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight** 

Powder Solid Amber Odorless No information available 280 °C / 536 °F No information available No information available Not applicable No information available

No data available No data available No information available 0.790 No information available No data available Not applicable > 280°C Not applicable C20 H10 Cl2 O5 401.2

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.		
Incompatible Materials	Strong oxidizing agents, Strong acids		
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Chlorine, Hydrogen chloride gas		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

## 11. Toxicological information

## Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information Toxicologically Synergistic	No information available
Products	
Delayed and immediate effects as w	ell as chronic effects from short and long-term exposure

Irritation		Irritating to eyes, r	espiratory system	and skin		
Sensitization		No information av	ailable			
Carcinogenicity		The table below in	idicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Spiro[isobenzofuran-1( 3H),9'-[9H]xanthen]-3- one, 2',7'-dichloro-3',6'-dihy droxy-	76-54-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information av	ailable			
Reproductive Effects	<b>;</b>	No information ava	ailable.			
Developmental Effec	ts	No information ava	ailable.			
Teratogenicity		No information av	ailable.			
STOT - single exposi	ure	Respiratory syster	n			

STOT - repeated exposure	None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

Ecotoxicity Do not empty into drains.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as

 Waste Disposal Methods
 Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
DOT _TDG IATA_	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Spiro[isobenzofuran-1(3H),9'-[9H]x	76-54-0	Х	ACTIVE	-

anthen]-3-one,		
2',7'-dichloro-3',6'-dihydroxy-		

## Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Spiro[isobenzofuran-1(3H),9'-[9H]x	76-54-0	Х	-	200-968-6	Х	-		Х	Х	KE-10142
anthen]-3-one,										
2',7'-dichloro-3',6'-dihydroxy-										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

Not applicable
See section 2 for more information
Not applicable
Not applicable
Not applicable
Not applicable
This product does not contain any Proposition 65 chemicals.
Not applicable
N N N
This product does not contain any DHS chemicals.
No information available
ig to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Spiro[isobenzofuran-1(3H),9'-[ 9H]xanthen]-3-one, 2',7'-dichloro-3',6'-dihydroxy-	76-54-0	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Spiro[isobenzofuran-1(3H),9'-[ 9H]xanthen]-3-one, 2',7'-dichloro-3',6'-dihydroxy-	76-54-0	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	29-Oct-2010 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**