



Material Safety Data Sheet
Dichlorfluorescein, 0.1% alcoholic

Section 1 - Chemical Product and Company Identification

MSDS Name:

Dichlorfluorescein, 0.1% alcoholic

Catalog Numbers:

LC13580

Synonyms:**Company Identification:**

LabChem, Inc.
 200 William Pitt Way
 Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300
 (011) 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
64-17-5	Reagent alcohol	60
76-54-0	2,7-dichlorofluorescein	0.1

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Fluorescent yellow opaque

Flammable liquid and vapor. Warning! May be fatal or cause blindness if swallowed. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Flash

Point: 57°F.

Target Organs: None known.

Potential Health Effects**Eye:**

May cause eye irritation.

Skin:

May cause irritation and defatting.



Material Safety Data Sheet

Dichlorfluorescein, 0.1% alcoholic

Ingestion:

May be fatal or cause blindness if swallowed. Ingestion can result in toxic intoxication, poisoning.

Inhalation:

Respiratory irritation, dizziness, weakness, fatigue, nausea, headache, unconsciousness, asphyxiation (effects of narcotic).

Chronic:

Repeated or excessive exposure may result in respiratory irritation, cough, headache, dermatitis, conjunctivitis, with possible liver and kidney damage, weight loss, neurological disorders (tremors, amnesia, myocardial and circulatory failure).

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

Give conscious victim 2-4 cupfuls of milk or water. Get medical aid at once. Give oxygen if respiration is depressed. Induce vomiting (touch finger to back of throat) keeping head lower than hips (prevent aspiration into lungs).

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Vapors heavier than air, may travel considerable distance and flashback from source of ignition. Move container if possible, avoid breathing vapors or dust. Dangerous fire/negligible explosion hazard when exposed to heat or flame.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

57°F (13.89°C)

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS # 64-17-5 health-0; flammability-3; reactivity-0

CAS# 76-54-0: Not published.

Explosion Limits:

Lower: 4.3 Upper: 19



Material Safety Data Sheet

Dichlorofluorescein, 0.1% alcoholic

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Keep out of sewers/drains.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:

Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Reagent alcohol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m ³ TWA	1000 ppm TWA; 1900 mg/m ³ TWA;
2,7-dichlorofluorescein	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs

Reagent alcohol: 1000 ppm TWA; 1900 mg/m³ TWA

Reagent alcohol: 1000 ppm TWA; 1900 mg/m³ TWA

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Firefighting--any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.



Material Safety Data Sheet
Dichlorfluorescein, 0.1% alcoholic

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: Fluorescentyellowopaque
Odor: Alcohol-like
pH: Slightlyalkaline
Vapor Pressure: No information found.
Vapor Density: No information found.
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: No information found.
Freezing/Melting Point: No information found.
Decomposition Temperature: No information found.
Solubility in water: Soluble.
Specific Gravity/Density: No information found.
Molecular Formula: No information found.
Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stableundernormaltemperaturesandpressures.

Conditions to Avoid:

Incompatible materials, excess heat.

Incompatibilities with Other Materials

Strong oxidizing agents, alkali metals.

Hazardous Decomposition Products

Oxides of carbon, formaldehyde.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 64-17-5: KQ6300000.

CAS# 76-54-0 unlisted.



Material Safety Data Sheet

Dichlorfluorescein, 0.1% alcoholic

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 64-17-5:

Inhalation, mouse: LC50 = 39 gm/m³/4H

Inhalation, rat: LC50 = 20000 ppm/10H

Oral, mouse: LD50 = 3450 mg/kg

Oral, rabbit: LD50 = 6300 mg/kg

Oral, rat: LD50 = 7060 mg/kg.

CAS# 76-54-0:

No information found.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 64-17-5

ACGIH: A4 - Not Classifiable as a Human Carcinogen

California: Not listed.

NIOSH: Not listed.

NTP: Not listed.

OSHA: Not listed.

IARC: Not listed.

CAS# 76-54-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Toxicity: dichlorofluorescein has been delisted by FDA for use in drugs or cosmetics (D&C Orange No.8) because of its toxicity. Reagent alcohol (90% ethanol, 5% methanol, 5% isopropanol) is considered an irritant/narcotic; mutagenic/-

teratogenic data.

Isopropanol manufactured by the strong acid process is listed in group 1 by IARC. Workers manufacturing isopropanol by this process showed increased sinus and laryngeal cancer.

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Ethanol solution

Hazard Class: 3



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UN Number: UN1170

Packing Group: PG III

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 64-17-5 is listed on the TSCA Inventory.

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

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

Reagent alcohol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations

WARNING: This product contains Reagent alcohol, a chemical known to the state of California to cause birth defects or other reproductive harm.

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European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 64-17-5 is listed on Canada's DSL List.

CAS# 76-54-0 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 64-17-5 is listed on Canada's Ingredient Disclosure List.

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

Section 16 - Other Information

MSDS Creation Date: April 15, 1998

Revision Date: August 19, 2010



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