Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

1 Identification
Product identifier
 Trade name: <u>2, 7-Dichlorofluorescein</u> Product code: DC3050SS CAS Number: 67-63-0
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291 Emergency telephone number:
ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
 Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness.
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms:
GHS02 GHS07
 Signal word: Danger Hazard statements: H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

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Trade name: 2, 7-Dichlorofluorescein (Cont'd. of page 1) P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. Ground/bond container and receiving equipment. P240 P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. Avoid breathing mist, vapors, or spray. P261 Wash thoroughly after handling. P264 Use only outdoors or in a well-ventilated area. P271 Wear protective gloves/protective clothing/eye protection. P280 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a poison center/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use for extinction: Alcohol resistant foam or water spray. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. • Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[•] Chemical characterization: Substances · CAS No. Description 67 63 0 Propan 2 ol

67-63-0	Propan-2-ol	
· Compor	nents:	
	Propan-2-ol	99.9%
	 Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336 	
	Eye Irrit. 2A, H319; STOT SE 3, H336	
76-54-0	2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid	0.1%

4 First-aid measures

Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation is experienced, consult a doctor.

· After eve contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

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Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Dizziness Coughing Causes eye irritation. Breathing difficulty Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Acidosis Disorientation Unconsciousness Danger: May cause drowsiness or dizziness. Danger of impaired breathing. Causes mild skin irritation. Indication of any immediate medical attention and special treatment needed: If necessary oxygen respiration treatment. Medical supervision for at least 48 hours. If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

[·] Extinguishing media

Suitable extinguishing agents: Alcohol resistant foam Carbon dioxide Gaseous extinguishing agents Water fog / haze Water spray Fire-extinguishing powder · For safety reasons unsuitable extinguishing agents: Water stream. Special hazards arising from the substance or mixture Highly flammable liquid and vapor. Formation of toxic gases is possible during heating or in case of fire. • Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. Additional information:

Eliminate all ignition sources if safe to do so. Use large quantities of foam as it is partially destroyed by the product. Cool endangered receptacles with water in flooding quantities.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation.

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Keep away from ignition sources. Protect from heat.

• Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[.] Handling

• Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about protection against explosions and fires:

Highly flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

· Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

• Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

67-63-0 Propa	an-2-ol
PEL (USA)	Long-term value: 980 mg/m³, 400 ppm
REL (USA)	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
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TLV (USA)	Short-term value: 984 mg/m³, 400 ppm	
	Long-term value: 492 mg/m³, 200 ppm	
	BEI	
EL (Canada)	Short-term value: 400 ppm	
	Long-term value: 200 ppm	
EV (Canada)	Short-term value: 400 ppm	
	Long-term value: 200 ppm	
LMPE (Mexico)	Short-term value: 400 ppm	
	Long-term value: 200 ppm	
	A4, IBE	
Ingredients wit	th biological limit values:	
67-63-0 Propar	n-2-ol	
BEI (USA) 40 r	ng/L	
	lium: urine	
	e: end of shift at end of workweek	
Para	ameter: Acetone (background, nonspecific)	
Exposure co		
Immediately rer	n foodstuffs, beverages and feed. nove all soiled and contaminated clothing. fore breaks and at the end of work.	
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Physical and chemical properties				
Information on basic physical and chemical properties				
· Appearance:	• •			
Form:	Fluid			
Color:	Clear			
· Odor:	Alcohol-like			
· Odor threshold:	Not determined.			
· pH-value:	Not determined.			
• Melting point/Melting range:	-89.5 °C (-129.1 °F)			
· Boiling point/Boiling range:	82 °C (179.6 °F)			
· Flash point:	13 °C (55.4 °F)			
· Flammability (solid, gaseous):	Not applicable.			
· Auto-ignition temperature:	425 °C (797 °F)			
· Decomposition temperature:	Not determined.			
[.] Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.			
· Explosion limits				
Lower:	2 Vol %			
Upper:	12 Vol %			
Oxidizing properties:	Not determined.			
· Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)			
· Density at 20 °C (68 °F):	0.78 g/cm³ (6.51 lbs/gal)			
· Relative density:	Not determined.			
· Vapor density:	Not determined.			
Evaporation rate:	Not determined.			
· Solubility in / Miscibility with				
Water:	Not miscible or difficult to mix.			
· Partition coefficient (n-octanol/wate	er): Not determined.			
· Viscosity				
Dynamic:	Not determined.			
Kinematic:	Not determined.			
[·] Other information	No relevant information available.			

10 Stability and reactivity

• **Reactivity:** No relevant information available.

- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- [•] Possibility of hazardous reactions

Reacts violently with oxidizing agents.

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Used empty containers may contain product gases which form explosive mixtures with air. Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized. Highly flammable liquid and vapor. Reacts with strong acids.

Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

· Incompatible materials No relevant information available.

• Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

11 Toxicological information

[·] Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

67-63-0 Propan-2-ol

OralLD505045 mg/kg (rat)DermalLD5012800 mg/kg (rabbit)InhalativeLC50/4h30 mg/l (rat)

Primary irritant effect:

· On the skin: Based on available data, the classification criteria are not met.

· On the eye: Causes eye irritation.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

• NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

Acute effects (acute toxicity, irritation and corrosivity):

Vapors have narcotic effect.

Irritating to eyes.

• Repeated dose toxicity: No relevant information available.

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- · STOT-single exposure: May cause drowsiness or dizziness.

• **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

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· Aspiration hazard: Based on available data, the classification criteria are not met.

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12 Ecological information

- [·] Toxicity
- · Aquatic toxicity No relevant information available.
- Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, ADR/RID/ADN, IMDG, IATA	UN1219
UN proper shipping name	
DOT	Isopropanol
ADR/RID/ADN, IMDG, IATA	ISOPROPANOL (ISOPROPYL ALCOHOL)
Transport hazard class(es)	
DOT	
Class	3
Label	3

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ADR/RID/ADN	
Class	3 (F1)
Label	3
· IMDG, IATA	
Class	3
Label	3
[·] Packing group · DOT, ADR/RID/ADN, IMDG, IATA	II
Environmental hazards	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Transport in bulk according to Annex II o	
MARPOL73/78 and the IBC Code	Not applicable.

· United States (USA)

· SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

• TSCA (Toxic Substances Control Act)

67-63-0 Propan-2-ol

76-54-0 2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid

· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

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Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

• EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtel.com