

Printing date 04/27/2023

Revision date 04/27/2023

Page 1/9

1 Identification

- · Product identifier
- · Trade name: 2',7'-Dichlorofluorescein diacetate
- · Article number: 20656
- CAS Number: 2044-85-1
- EC number: 628-838-8
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Cayman Chemical Co.
 1180 E. Ellsworth Rd.
 Ann Arbor, MI 48108
 USA
- · Information department: Product safety department

Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

Classification of the substance or mixture GHS05 Corrosion Skin Corrosion 1B H314 Causes severe skin burns and eye damage. Eye Damage 1 H318 Causes serious eye damage. GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed. Acute Toxicity - Inhalation 4 H332 Harmful if inhaled. Label elements GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2). (Contd. on page 2)

Printing date 04/27/2023

Revision date 04/27/2023

Trade name: 2',7'-Dichlorofluorescein diacetate

Hazard pictograms Image: GHS05 GHS07 Signal word Danger Hazard statements 1302+H332 Harmful if swallowed or if inhaled. 1314 Causes severe skin burns and eye damage. Precautionary statements 1200 Do not breathe dusts or mists. Precautionary statements 1200 Do not breathe dusts or mists. P260 Do not breath dusts or smoke when using this product. 1271 Use only outdoors or in a well-ventilated area. 1280 Wear protective gloves/protective clothing/eye protection/face protect 1201+P312 If swallowed: Call a poison center/doctor if you feel unwell. 1201+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. 1201+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. 1203+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing 1204+P340 IF INHALED: Remove person to fresh air and keep comfortable for the state of the several minutes. Remove present and easy to do. Continue rinsing. 1201 Specific treatment (see on this label). 1201 Specific treatment (see on this label). 1202 Store locked up. 1203 Vash contaminated clothing before reuse.	(Contd. from page 1)
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Classification system:	
IFPA ratings (scale 0 - 4)	

Fire = 0 3 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH	*3	Health = *3
		Fire = 0
REACTIVITY	0	Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

2044-85-1 2',7'-Dichlorofluorescein diacetate

(Contd. on page 3)

US

Printing date 04/27/2023

Revision date 04/27/2023

(Contd. from page 2)

Trade name: 2',7'-Dichlorofluorescein diacetate

Identification number(s)

· EC number: 628-838-8

4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing:

Immediately call a doctor.

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- Use fire fighting measures that suit the environment.
- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- 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.
- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- **PAC-2:** Substance is not listed.

(Contd. on page 4)

Printing date 04/27/2023

Revision date 04/27/2023

(Contd. from page 3)

Trade name: 2',7'-Dichlorofluorescein diacetate

• PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

US

Printing date 04/27/2023

Revision date 04/27/2023

(Contd. from page 4)

Trade name: 2',7'-Dichlorofluorescein diacetate

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: Solid Color: Not determined. · Odor: Characteristic · Structural Formula C24H14Cl2O7 · Molecular Weight 485.3 g/mol · Odor threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined. · Flash point: Not applicable. · Flammability (solid, gaseous): Product is not flammable. · Decomposition temperature: Not determined. · Ignition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Lower: Not determined. Upper: Not determined. · Vapor pressure: Not applicable. · Density: Not determined. · Relative density Not determined. · Vapor density Not applicable. **Evaporation rate** Not applicable. · Solubility in / Miscibility with Water: Not determined. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: **Dynamic:** Not applicable. **Kinematic:** Not applicable. SOLUBILITY 0.1 M Na2CO3: 5 mg/ml; DMF: 25 mg/ml; DMSO: 33 mg/ml; PBS (pH 7.2): 20 µg/ml; Ethanol: 25 mg/ml (Contd. on page 6)

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Printing date 04/27/2023

Revision date 04/27/2023

Trade name: 2',7'-Dichlorofluorescein diacetate

(Contd. from page 5)

· Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- Hazardous decomposition products: carbon oxides, hydrogen chloride

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- [·] on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

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

- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

(Contd. on page 7)

Printing date 04/27/2023

Revision date 04/27/2023

(Contd. from page 6)

Trade name: 2',7'-Dichlorofluorescein diacetate

· Other adverse effects No further 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.

· Uncleaned packagings:

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

UN1759
Corrosive solids, n.o.s. (2',7'-Dichlorofluores diacetate)
CORROSIVE SOLID, N.O.S. (2',7'-Dichlorofluores diacetate)
Corrosive solid, n.o.s. (2',7'-Dichlorofluores diacetate)
8 Corrosive substances
8
8 Corrosive substances
8
I
Not applicable.
Warning: Corrosive substances code): 88
F-A,S-B B

Printing date 04/27/2023

Revision date 04/27/2023

Trade name: 2',7'-Dichlorofluorescein diacetate

	(Contd. from page 7)
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 1 kg On cargo aircraft only: 25 kg
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	0 Code: E0 Not permitted as Excepted Quantity
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1759 CORROSIVE SOLID, N.O.S. (2',7'- DICHLOROFLUORESCEIN DIACETATE), 8, 1

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of (Contd. on page 9)

US

Printing date 04/27/2023

Revision date 04/27/2023

Trade name: 2',7'-Dichlorofluorescein diacetate

	(Contd. from page 8
the information contained herein.	
Department issuing SDS: Environment protection department.	
Contact: -	
Date of preparation / last revision 04/27/2023	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B	
Eye Damage 1: Serious eye damage/eye irritation – Category 1	
* Data compared to the previous version altered.	