

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

SECTION 1. IDENTIFICATION

Product name : 2',7'-Dichlorofluorescein solution

Number : 000000021067

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : colourless

Odor : alcohol-like

Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 2
Eye irritation, Category 2A
Specific target organ toxicity - single exposure, Category 3,
Central nervous system

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

GHS Label elements, including precautionary statements

Symbol(s)

:



Signal word

:

Danger

Hazard statements

:

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statements

:

Prevention:

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/ doctor if you feel unwell.
If eye irritation persists: Get medical advice/ attention.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

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

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Isopropanol	67-63-0	>=99.00 %
2-(2,7-Dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid	76-54-0	<=1.00 %

SECTION 4. FIRST AID MEASURES

- Inhalation : Remove to fresh air. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician.
- Ingestion : Do not induce vomiting without medical advice. Immediate medical attention is required. Never give anything by mouth to an unconscious person. Call a physician.

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
Cool closed containers exposed to fire with water spray.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during firefighting : Flammable.
Vapours may form explosive mixtures with air.
Vapours are heavier than air and may spread along floors.
Vapors may travel to areas away from work site before igniting/flashing back to vapor source.
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Do not use a solid water stream as it may scatter and spread fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Wear personal protective equipment.

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

protective equipment and
emergency procedures

Immediately evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.

Environmental precautions

: Prevent further leakage or spillage if safe to do so.
Discharge into the environment must be avoided.
Do not flush into surface water or sanitary sewer system.
Do not allow run-off from fire fighting to enter drains or water
courses.

Methods and materials for
containment and cleaning
up

: Ventilate the area.
Do not use sparking tools.
Use explosion-proof equipment.
Contain and collect spillage with non-combustible absorbent
materials, e.g. sand, earth, vermiculite, diatomaceous earth and
place in container for disposal according to local regulations
(see section 13).

SECTION 7. HANDLING AND STORAGE**Handling**Precautions for safe
handling

: Wear personal protective equipment.
Use only in well-ventilated areas.

Advice on protection against
fire and explosion

: Keep away from fire, sparks and heated surfaces.
No smoking.
Take precautionary measures against static discharges.
Vapours may form explosive mixtures with air.

StorageConditions for safe storage,
including any
incompatibilities

: Store in area designed for storage of flammable liquids. Protect
from physical damage.
Keep containers tightly closed in a dry, cool and well-ventilated
place.
Keep away from direct sunlight.

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Do not breathe vapours or spray mist.
- Engineering measures : Use with local exhaust ventilation.
Prevent vapour buildup by providing adequate ventilation during and after use.
- Eye protection : Safety goggles
- Hand protection : Impervious butyl rubber gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Wear suitable protective equipment.
Wear as appropriate:
Protective suit
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : When using do not eat, drink or smoke.
Wash hands before breaks and immediately after handling the product.
Keep working clothes separately.
Remove and wash contaminated clothing before re-use.
Do not breathe dust or spray mist.
Avoid contact with skin, eyes and clothing.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Isopropanol	67-63-0	STEL : Short term exposure limit	(400 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended

SAFETY DATA SHEET

**2',7'-Dichlorofluorescein solution****02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

Isopropanol	67-63-0	TWA : Time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Isopropanol	67-63-0	STEL : Short term exposure limit	1,225 mg/m3 (500 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Isopropanol	67-63-0	REL : Recomm ended exposure limit (REL):	980 mg/m3 (400 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Isopropanol	67-63-0	PEL : Permissi ble exposure limit	980 mg/m3 (400 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Isopropanol	67-63-0	STEL : Short term exposure limit	1,225 mg/m3 (500 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Isopropanol	67-63-0	TWA : Time weighted average	980 mg/m3 (400 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

Color	: colourless
Odor	: alcohol-like
Odor threshold	: Note: No data available
pH	: Note: neutral
Melting point/range	: -90 °C Note: The physical data is that of the main component.
Boiling point/boiling range	: 81 - 83 °C
Flash point	: 54 °F (12 °C) Method: closed cup
Evaporation rate	: Note: No data available
Lower explosion limit	: 2 %(V) Note: The physical data is that of the main component.
Upper explosion limit	: 12 %(V) Note: The physical data is that of the main component.
Vapor pressure	: ca. 42 hPa at 20 °C(68 °F)Note: The physical data is that of the main component. 59 hPa at 25 °C(77 °F)Note: The physical data is that of the main component.
Vapor density	: Note: No data available
Density	: 0.79 g/cm3 at 20 °C

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

Water solubility	: Note: completely miscible
Solubility in other solvents	: Note: Soluble in most organic solvents
Partition coefficient: n-octanol/water	: log Pow: 0.05 at 25 °C Note: The physical data is that of the main component.
Ignition temperature	: ca. 425 °C Note: The physical data is that of the main component.
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: ca. 2.5 mPa.s at 20 °C Note: The physical data is that of the main component.
Viscosity, kinematic	: Note: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. Hazardous polymerisation does not occur.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO ₂)

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 5,840 mg/kg Species: Rat Method: OECD Test Guideline 401 Test substance: Isopropanol
Acute inhalation toxicity	: LC50: > 10000 ppm Exposure time: 6 h Species: Rat Method: OECD Test Guideline 403 Test substance: Isopropanol
Acute dermal toxicity	: LD50: 12,800 mg/kg Species: Rabbit Method: OECD Test Guideline 402 Test substance: Isopropanol
Skin irritation	: Species: Rabbit Result: slight irritation Test substance: Isopropanol
Eye irritation	: Species: Rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405 Test substance: Isopropanol
Sensitisation	: Buehler Test Species: Guinea pig Result: non-sensitizing Test substance: Isopropanol Method: OECD Test Guideline 406
Genotoxicity in vitro	: Test Method: In vitro mammalian cell gene mutation test

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

	Cell type: Chinese Hamster Ovary Cells Metabolic activation: with and without metabolic activation Result: negative Method: OECD Test Guideline 476 Test substance: Isopropanol
	: Test Method: Ames test Metabolic activation: with and without metabolic activation Result: negative Method: OECD Test Guideline 471 Test substance: Isopropanol
Genotoxicity in vivo	: Test Method: Micronucleus test Species: Mouse Method: OECD Test Guideline 474 Test substance: Isopropanol Result: negative
Carcinogenicity Isopropanol	: Note: Not classified due to data which are conclusive although insufficient for classification.
Reproductive toxicity Isopropanol	: Note: Not classified due to data which are conclusive although insufficient for classification.
Further information	: Note: Solvent vapours have a narcotic effect if inhaled in high concentrations.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	: flow-through test LC50: 9,640 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) Test substance: Isopropanol
------------------	--

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : static test
EC50: > 10,000 mg/l
Exposure time: 24 h
Species: Daphnia magna (Water flea)
Test substance: Isopropanol
Method: OECD Test Guideline 202

Toxicity to algae : Test substance: Isopropanol
Note: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to bacteria : static test
1,050 mg/l
Exposure time: 16 h
Species: Pseudomonas putida
Test substance: Isopropanol
Method: DIN 38412

Elimination information (persistence and degradability)

Biodegradability : Biochemical Oxygen Demand (BOD)
Biochemical oxygen demand within 5 days
Value: 58 %
Test substance: Isopropanol

Further information on ecology**Ecotoxicology Assessment**

Results of PBT assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1219
Proper shipping name : ISOPROPANOL SOLUTION
Class : 3
Packing group : II
Hazard Labels : 3

IATA UN/ID No. : UN 1219
Description of the goods : ISOPROPANOL SOLUTION
Class : 3
Packaging group : II
Hazard Labels : 3
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 353
Packing instruction (passenger aircraft) : Y341

IMDG UN/ID No. : UN 1219
Description of the goods : ISOPROPANOL SOLUTION
Class : 3
Packaging group : II
Hazard Labels : 3
EmS Number : F-E, S-D
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances : On TSCA Inventory
Control Act

Australia. Inventory of : On the inventory, or in compliance with the inventory
Industrial Chemicals (AICC),
as amended

Canada. Canadian : All components of this product are on the Canadian DSL
Environmental Protection

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

Act (CEPA). Domestic
Substances List (DSL)

Japan. Kashin-Hou Law List : Not in compliance with the inventory

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory
Inventory (KECI)

Philippines. Inventory of : On the inventory, or in compliance with the inventory
Chemicals and Chemical
Substances (PICCS)

China. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances
(IECSC)

New Zealand. Inventory of : On the inventory, or in compliance with the inventory
Chemicals (NZIoC), as
published by ERMA New
Zealand

Taiwan Chemical : On the inventory, or in compliance with the inventory
Substance Inventory (TCSI)

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting
requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels
established by SARA Title III, Section 313:
: Isopropanol 67-63-0

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

2',7'-Dichlorofluorescein solution**02591-500ML**

Version 1.2

Revision Date 04/03/2023

Print Date 05/29/2023

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Isopropanol 67-63-0

New Jersey RTK : Isopropanol 67-63-0

Pennsylvania RTK : Isopropanol 67-63-0

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	2
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 04/23/2018

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group