

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code H14700
Product name 1,1',3,3,3',3'-hexamethylindodicarbocyanine iodide (DiIC1(5))

Company/undertaking identification

Life Technologies Corporation
 5781 Van Allen Way
 PO Box 6482
 Carlsbad, CA 92008
 +1 760 603 7200

Life Technologies
 5250 Mainway Drive
 Burlington, ONT
 CANADA L7L 6A4
 800/263-6236

24 hour Emergency Response: 866-536-0631
 301-431-8585
 Outside of the U.S. +1-301-431-8585

Country specific Emergency Number (if available):
 CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

For Research Use Only. Not for use in diagnostic procedures.

SECTION 2: Hazards identification

GHS - Classification

Signal Word

WARNING



Health hazards

Acute oral toxicity	Category 4
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Physical hazards

Not classified

Hazard Statements

H302 - Harmful if swallowed

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Precautionary Statements

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P264 - Wash hands thoroughly after handling

P330 - Rinse mouth

P270 - Do not eat, drink or smoke when using this product

Principle Routes of Exposure

Potential Health Effects

eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
inhalation	May be harmful by inhalation.
Ingestion	Harmful if swallowed.

Specific effects

Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

Target Organ Effects	No known effects under normal use conditions.
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HMIS

Health	1
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
2-[5-(1,3-Dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)penta-1,3-dienyl]-1,3,3-trimethyl-3H-indolium iodide 36536-22-8 (60-100)	36536-22-8	-	60-100

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Skin contact	Rinse cautiously with water for several minutes. Immediate medical attention is not required.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	
H302 - Harmful if swallowed	

Notes to Physician	Treat symptomatically.
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SECTION 5: Firefighting measures

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Suitable extinguishing media
Special protective equipment for firefighters
Specific hazards arising from the chemical

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.
Standard procedure for chemical fires.
Not known

SECTION 6: Accidental release measures

Personal precautions Always wear recommended Personal Protective Equipment. Use personal protection equipment.
Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Environmental precautions

No special environmental precautions required.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling Always wear recommended Personal Protective Equipment. No special handling advices are necessary.
Storage Keep in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
2-[5-(1,3-Dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)pent-1,3-dienyl]-1,3,3-trimethyl-3H-indolium iodide	None	None	None	None

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No special environmental precautions required.

SECTION 9: Physical and chemical properties

General information

Form solid

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Appearance	No data available	
Odor	No data available	
Odor Threshold	No data available	
Boiling point / boiling range	°C No data available	°F No data available
Melting point / melting range	°C No data available	°F No data available
flash point	°C No data available	°F No data available
Autoignition Temperature	°C No data available	°F No data available
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Oxidizing properties	No data available	
Water solubility	No data available	
Upper explosion limit	No data available	
Lower explosion limit	No data available	
Partition coefficient: n-octanol/water	No data available	
Vapor Pressure	No data available	
vapor density	No data available	
Viscosity	No data available	
pH value	No data available	

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Possibility of hazardous reactions	Hazardous reaction has not been reported
Hazardous decomposition products	None under normal use conditions.
polymerization	Hazardous polymerization does not occur.
Conditions to avoid	None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

To the best of our knowledge, the chemical, physical, biological, and toxicological properties of this product have not been thoroughly investigated.

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
2-[5-(1,3-Dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)penta-1,3-dienyl]-1,3,3-trimethyl-3H-indolium iodide	No data available	No data available	No data available

Principle Routes of Exposure

Potential Health Effects

eyes	May cause eye irritation with susceptible persons.
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Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

SECTION 12: Ecological information

Ecotoxicity	The environmental impact of this product has not been fully investigated.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA	
Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None
Environmental hazards	None

SECTION 15: Regulatory information

Component	US TSCA
2-[5-(1,3-Dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)penta-1,3-dienyl]-1,3,3-trimethyl-3H-indolium iodide 36536-22-8 (60-100)	Listed

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision

SDS sections updated.

For Research Use Only. Not for use in diagnostic procedures.

References

- Qualitative Structure Activity Relationship (QSAR) toolbox

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet

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