

SAFETY DATA SHEET per OSHA HazCom 2012

per OSHA hazcom zorz

Revised Date: March 8, 2017

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product name:	DTTC lodide		
Product Number:	08630		
Product use:	For laboratory research purposes		
Restrictions on use:	Not for drug or household use		
Safety Sheet Supplier:	Oakley, Inc. 4000 Luxottica Place Mason, OH 45040 USA		
Telephone:	(614) 492-5610		
Emergency Phone:	(614) 674-4846		
E-mail address:	info.exciton@luxotticaretail.com		
2 HAZARDS IDENTIFICATION			

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Label elements

Pictogram



Signal word

Hazard statement(s) H302 + H312 + H332 H315 H319 H335	Harmful if swallowed, in contact with skin or if inhaled Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Precautionary statement(s)	
P261	Avoid breathing dust.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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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 or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified or not covered by GHS None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:	3-ethyl-2-[7-(3-ethyl-2(3 <u>H</u>)-benzothiazolylidene)-1,3,5-heptatrienyl]-benzothiazolium iodide; 3,3'-Diethylthiatricarbocyanine iodide
Formula:	C25 H25 IN2 S2
Molecular Weight:	544.51 gm/mol
CAS-No.:	3071-70-3
EC-No.:	221-342-9

Hazardous components

3-Ethyl-2-[7-(3-ethyl-3H-benzothiazol-2-ylidene) hepta-1,3,5-trienyl]benzothiazolium iodide

Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H302 + H312 + H332, H315, H319, H335

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. . Consult a physician.

In case of eye contact

Flush eyes with water for 15 minutes as a precaution. . Consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. . Consult a physician.

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

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen iodide

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage of spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Store in a dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Hygiene measures and engineering controls

Adequate ventilation and/or containment in accordance with good laboratory practices.

Personal protective equipment

Respiratory protection

Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with impermeable gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye / face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection

Use impervious clothing. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

a)	Appearance
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- b) Odor
- c) Odor Threshold
- d) pH
- e) Melting point

Form: crystalline Color: green-yellow No data available No data available No data available 215-216 °C

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- f) Initial boiling point and boiling range
- g) Flash point
- h) Evaporation rate
- i) Flammability
- j) Upper/lower flammability or explosive limits
- k) Vapor pressure
- I) Vapor density
- m) Relative density
- n) Solubility
- o) Partition coefficient: n-octanol/water
- p) Auto-ignition temperature
- q) Decomposition temperature
- r) Viscosity

No data available Partially soluble in water No data available No data available No data available No data available No data available

No data available

10. STABILITY AND REACTIVITY

- a) Reactivity
- b) Chemical stability
- c) Possibility of hazardous reactions
- d) Conditions to avoid (e.g. static discharge)
- e) Incompatible materials
- f) Hazardous decomposition products

No data available Stable under recommended storage conditions No data available No data available Strong oxidizing agents See Section 5.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

No data available

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: 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.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Routes of Exposure:

Inhalation, Eye contact, Ingestion, Skin contact.

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Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation Causes skin irritation. Causes serious eye irritation.

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available

Signs and Symptoms of Exposure

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil

No data available

PBT and vPvB assessment No data available

Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG Not dangerous goods

ΙΑΤΑ

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

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

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (de Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

3-Ethyl-2-[7-(3-ethyl-3H-benzothiazol-2-ylidene)hepta-1,3,5-	
trienyl]benzothiazolium iodide	CASRN 3071-70-3

New Jersey Right To Know Components

3-Ethyl-2-[7-(3-ethyl-3H-benzothiazol-2-ylidene)hepta-1,3,5trienyl]benzothiazolium iodide

California Prop. 65 Components

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

CASRN 3071-70-3

		16. OTHER INFORMATION
HMIS Rating		
Health hazard:	2	
Chronic Health Hazard:		
Flammability:	0	
Physical Hazard:	0	
NFPA Rating		
	0	
Health hazard:	2	
Fire Hazard:	0	
Reactivity Hazard:	0	

Further information

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