

# SAFETY DATA SHEET per OSHA HazCom 2012

Revised Date: March 7, 2017

#### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product name: Cryptocyanine

Product Number: 07070

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

## Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 2), H300 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 Danger

Hazard statement(s)

H300 Fatal if swallowed. H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 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 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/

physician.

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.

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: 1,1'-diethyl-4,4'-carbocyanine iodide; 1-ethyl-4-[(3-(1-ethyl-4(1H)-quinolinylidene)-1-

ropenyl] quinolinium iodide

Formula: C25 H25 I N2
Molecular Weight: 480.38 gm/mol
CAS-No.: 4727-50-8
EC-No.: 225-224-8

#### **Hazardous components**

1-Ethyl-4-[3-(1-ethyl-4(1H)-quinolylidene)prop-1-enyl]quinolinium iodide

Acute Toxicity 2; Skin Irritant 2; Eye Irritant 2A; STOT SE 3; H300, H315, H319, H335

## 4. FIRST AID MEASURES

#### If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult physician.

## In case of eye contact

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

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult 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), 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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. 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.

## 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 risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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**

Wear 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 Form: crystalline solid

Color: bright green
b) Odor No data available

c) Odor Threshold No data available

d) pH No data available

e) Melting point 253-254 °C

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Initial boiling point and boiling range No data available g) Flash point No data available h) Evaporation rate No data available Flammability No data available i) Upper/lower flammability or explosive limits No data available j) No data available k) Vapor pressure I) Vapor density No data available m) Relative density No data available n) Solubility Insoluble in water o) Partition coefficient: n-octanol/water No data available p) Auto-ignition temperature No data available g) Decomposition temperature No data available r) Viscosity No data available

## 10. STABILITY AND REACTIVITY

a) Reactivity No data available

b) Chemical stability Stable under recommended storage conditions

c) Possibility of hazardous reactions
 d) Conditions to avoid (e.g. static discharge)
 e) Incompatible materials
 No data available
 Strong oxidizing agents

f) Hazardous decomposition products See Section 5.

#### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

Fatal if swallowed.

## 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

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**Routes of Exposure:** Inhalation, Eye contact, Ingestion, Skin contact.

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

# **Additional Information**

RTECS: VC3676880

#### 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)

UN number: 2811 Class: 6.1 Packing group: II

Proper shipping name: Toxic solids, organic, n.o.s. (1-Ethyl-4-[3-(1-ethyl-4(1H)-quinolylidene)prop-1-enyl]quinolinium

iodide)

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (1-Ethyl-4-[3-(1-ethyl-4(1H)-quinolylidene)prop-1-

enyl]quinolinium iodide) Marine pollutant: No

**IATA** 

UN number: 2811 Class: 6.1 Packing group: II

Proper shipping name: Toxic solid, organic, n.o.s. (1-Ethyl-4-[3-(1-ethyl-4(1H)-quinolylidene)prop-1-enyl]quinolinium

iodide)

## 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**

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

# **New Jersey Right To Know Components**

No components are subject to the New Jersey Right to Know Act.

## 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.

#### **16. OTHER INFORMATION**

**HMIS Rating** 

Health hazard: 3 Chronic Health Hazard:

Flammability: 0
Physical Hazard: 0

NFPA Rating

Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 0

## **Further information**

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