

## SAFETY DATA SHEET per OSHA HazCom 2012

Revised Date: March 14, 2017

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

Product name:	Q-switch I
Product Number:	20120
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, dermal (Category 4), H312

## Label elements

Pictogram



Signal word	Warning
Hazard statement(s) H312 H316	Harmful in contact with skin Causes mild skin irritation.
Precautionary statement(s)	
P260	Do not breathe dust.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower)
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).
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362 + P364	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:8-[5-[6,7-Dihydro-6-methyl-2,4-diphenyl-5H-1-benzopyran-8-yl]-2,4-pentadienylidene]-5,6,7,8-<br/>tetrahydro-6-methyl-2,4-diphenyl-1-benzopyrylium perchlorateFormula:C49 H43 ClO6Molecular Weight:763.33 gm/molCAS-No.:21016-19-3EC-No.:Not available

## Hazardous components

Q-switch I

#### **4. FIRST AID MEASURES**

## If inhaled

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

## In case of skin contact

Wash off with soap and plenty of water.

## In case of eye contact

Flush eyes with water for 15 minutes as a precaution.

#### If swallowed

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

## 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)

## Special protective equipment for fire-fighters

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

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Use 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.

## 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**

Respiratory protection is not required. 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**

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
1.5		Color: brown black
b)	Odor	No data available
C)	Odor Threshold	No data available
d)	рН	No data available
e)	Melting point	240 °C decomposes
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
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
q)	Decomposition temperature	No data available
r)	Viscosity	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

Skin LD50 (Guinea Pig) GT 1.0 g/kg IP LD50 (Rat) 1600-3200 mg/kg

## Skin corrosion/irritation

Skin irritation (Guinea Pig) slight

Serious eye damage/eye irritation

No data available

## 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.

**Specific target organ toxicity - single exposure** Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

#### Signs and Symptoms of Exposure

Causes mild skin 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 o

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

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:		
Chronic Health Hazard:		
Flammability:	0	
Physical Hazard:	0	
NFPA Rating		
Health hazard:	2	
Fire Hazard:	0	
Reactivity Hazard:	0	

## **Further information**

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#### Revised Date: March 14, 2017