

# SAFETY DATA SHEET per OSHA HazCom 2012

Revised Date: March 6, 2017

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

Product name: Coumarin 478

Product Number: 04780

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) Not a hazardous substance or mixture.

# Hazards not otherwise classified or not covered by GHS

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 2,3,6,7,10,11-hexahydro- $1\underline{H},5\underline{H}$ -cyclopenta[3,4][1]benzopyrano [6,7,8-<u>ij</u>]quinolizin- $12(9\underline{H})$ -one

Formula: C18 H19 NO2
Molecular Weight: 281.36 gm/mol
CAS-No.: 41175-45-5
EC-No.: Not available

# **Hazardous components**

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

#### 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**

Wear personal protective equipment. Avoid dust formation. Ensure adequate ventilation. 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

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.

# 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**

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

Appearance	Form: crystals
	Color: pale yellow
Odor	No data available
Odor Threshold	No data available
рН	No data available
Melting point	147-149 °C
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Insoluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
	Odor Odor Threshold pH Melting point Initial boiling point and boiling range Flash point Evaporation rate Flammability Upper/lower flammability or explosive limits Vapor pressure Vapor density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature

# 10. STABILITY AND REACTIVITY

a) Reactivity No data available

b) Chemical stability Stable under recommended storage conditions

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

See Section 5. Hazardous decomposition products

# 11. TOXICOLOGICAL INFORMATION

# **Acute toxicity**

No data available

#### Skin corrosion/irritation

No data available

# 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

No data available

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

# Signs and Symptoms of Exposure

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

#### **IATA**

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

No 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: 0 Chronic Health Hazard:

Flammability: 0 Physical Hazard: 0

**NFPA Rating** 

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

# **Further information**

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