

# Circadian Sunrise Horticultural Oil - Safety Data Sheet

## 1: Identification

### 1.1 Product identifier

1.1.1 **Trade Name:** Circadian Sunrise Horticultural Oil

1.1.2 **Use of the Substance / Preparation:** Organic Fungicide / Insecticide / Miticide

1.1.3 **Company / Undertaking Identification:**

Circadian Crop Sciences LLC

PO Box 456

Weimar, CA 95736

Tel: +1 530 782-5324

1.1.4 **Emergency telephone:**

Non hazardous

## 2: Hazard(s) Identification

### 2.1 The hazard classification

Eye Irritation

Mild

Skin Irritation

Non irritating. May cause allergic reaction.

2.2 **Signal Word:** Caution

2.3 **Hazard statement(s):** None

2.4 **Pictograms:**

NA

### 2.5 Precautionary statement(s):

**Prevention**—Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves, protective clothing, eye protection, skin protection.

**IF ON SKIN**—Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Ingredients are all

FDA GRAS and approved for use in cosmetics and skin moisturizers.

**IF IN EYES**—Rinse with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical advice/attention if eye irritation persists. Product found non-irritating in the eyes of rabbits.

2.6 **Hazards not otherwise classified (HNOC):** None identified

## 3: Composition/Information on Ingredients

Component	CAS-No	Weight %
Corn oil	8001-30-7	17.0
Peppermint oil	8006-90-4	10.0
Other inert ingredients		73.0

## 4: First-Aid Measures

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists.
<b>Skin Contact:</b>	Wash off immediately with plenty of water for at least 5 minutes.
<b>Inhalation:</b>	Move to fresh air. Obtain medical attention. If not breathing, give artificial respiration.
<b>Ingestion:</b>	Rinse mouth with water and drink plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects: None reasonably foreseeable.	
Notes to Physician:	Treat symptomatically

## 5: Fire-Fighting Measures

### 5. Fire-fighting Measures

This product will not sustain a fire after exposure to open flame.

#### 5.1 Extinguishing Media

Water-spray, foam, CO<sub>2</sub>, dry powder

#### 5.2 Special hazard arising from the substance or mixture

Carbon dioxide, carbon monoxide

#### 5.3 Advice for firefighters

Spilled material is slippery.

Wear suitable protective clothing.

## 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Forms slippery surfaces with water.

### 6.2 Environmental precautions

Do not discharge large amounts into drains or bodies of water

### 6.3 Methods and material for containment and clean-up

Use personal protective equipment as required. Pick up mechanically, and store in plastic bags or containers. May be spread over intended application sites at rates up to one pound per thousand square feet and actually benefit soil. Keep out of waterways. Waste is non-hazardous and should be accepted at most landfills. Consult local regulations.

## Section 7: Handling and Storage

**7.1 Handling** Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

**7.2 Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

## Section 8: Exposure Controls/Personal Protection

**8.1. Engineering Controls:** Safety shower and eye bath recommended at mixing/application site. If necessary, provide exhaust ventilation or other engineering controls to keep the airborne concentrations below threshold limit value of common dust.

**8.2. Respiratory protection:** NIOSH/MSHA or European Standard EN 149 approved respirator when breathing spray mist is unavoidable.

**8.3 Eye Protection:** Protective eyeglasses or chemical safety goggles

**8.4 Skin Protection:** Wear long sleeved pants and shirt, socks, closed toed shoes and chemical resistant gloves to minimize skin contact.

## Section 9: Physical and Chemical Properties

**Physical State:** Liquid suspension

**Appearance:** Creamy Tan 7.5YR 4/2

**Odor:** Moderate / com

**Odor Threshold:** No information available

**Specific Gravity:** 1.0 gm/ml

**pH:** 9.0 to 10.0

**Melting Point/Range:** Not applicable

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**Boiling Point/Range:** No information available

**Flash Point:** No information available

**Evaporation Rate:** No information available

**Flammability (solid,gas):** Not flammable

**Flammability or explosive limits**

**Upper:** Not flammable

**Lower:** Not flammable

**Heavy Metals**

Lead < 3 ppm

Arsenic < 1 ppm

Chromium < 4 ppm

Copper < 5 ppm

Mercury < 0.03 ppm

**Solubility** Highly soluble in water

## Section 10: Stability and Reactivity

- **4.1. Chemical Stability:** Stable under normal temperatures and pressures
- **4.2. Shelf Life:** 24 months period
- **4.3. Hazardous decomposition:** Carbon oxides (CO, CO<sub>2</sub>)
- **4.4. Hazardous polymerization:** Will not occur
- **4.5. Incompatible with:** Not available

## Section 11: Toxicological Information

**Acute toxicity:** Non-toxic.

**Mammalian Acute Toxicity—Sprague Dawley Rats**

Method: OECD No. 423

LD<sub>50</sub>>2,000 mg/kg

**Skin corrosion/irritation:** None. FDA GRAS ingredients approved for cosmetics.

**Serious eye damage/eye irritation:** None.

**Acute Ocular Irritation/Corrosiveness—New Zealand White Rabbits**

Method: OECD No. 405. Non-irritating/non-corrosive after a single dose administration

**Respiratory of skin sensitization:** Not available

**Germ cell mutagenicity:** Not available

**Carcinogenicity:** Not available

**Reproductive toxicity:** Not available

**Specific target organ toxicity – single exposure:** Not available

**Specific target organ toxicity – repeated exposure:** Not available

## Section 12: Ecological Information

### 12.1 Toxicity

**European Honeybee** (*Apis mellifera ligustica*)

Method: OCSPP 850.3020

Acute contact LD<sub>50</sub> > 1936 µg/bee

proportion or mortality ( $\hat{p}$ ) = 0.0

99% confidence interval on  $\hat{p}$  is (0.00, 0.19)

95% confidence interval on  $\hat{p}$  is (0.00, 0.14)

**Dietary Toxicity Upland Game Species—Coturnix quail** (*Coturnix coturnix*)

Method: OCSPP 850.2200

LC<sub>50</sub> > 26,888 mg/kg

proportion or mortality ( $\hat{p}$ ) = 0.0

99% confidence interval on  $\hat{p}$  is (0.00, 0.41)

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95% confidence interval on  $\hat{p}$  is (0.00, 0.31)

**Dietary Toxicity Wetland Game Species— Mallard** (*Anas platyrhynchos*)

Method: OCSPP 850.2200

LC50 > 26,888 mg/kg

proportion or mortality ( $\hat{p}$ ) = 0.0

99% confidence interval on  $\hat{p}$  is (0.00, 0.41)

95% confidence interval on  $\hat{p}$  is (0.00, 0.31)

**Avian Acute Toxicity Passerine Species—Zebra Finch** (*Taeniopygia guttata*)

Method: OCSPP 850.2100

LD50 > 5,556 mg/kg

proportion or mortality ( $\hat{p}$ ) = 0.0

99% confidence interval on  $\hat{p}$  is (0.00, 0.41)

95% confidence interval on  $\hat{p}$  is (0.00, 0.31)

**Avian Acute Toxicity Upland Game Species— Coturnix quail** (*Coturnix coturnix*)

Method: OCSPP 850.2100

LD50 > 10,000 mg/kg

proportion or mortality ( $\hat{p}$ ) = 0.0

99% confidence interval on  $\hat{p}$  is (0.00, 0.41)

95% confidence interval on  $\hat{p}$  is (0.00, 0.31)

## Section 13: Disposal Considerations

No special disposal concerns. Contains essential plant nutrients and wetting agents that can benefit soils. Rates up to three ounces of product per thousand square feet of land are considered safe for the environment.

## Section 14: Transport Information

No special transportation concerns

## Section 15: Regulatory Information

Product must be used in accordance with the label accompanying it

## Section 16: Other Information

**Prepared By:** Regulatory Affairs  
Circadian Crop Sciences LLC

**Date of Creation of this SDS:** 05/13/2019

**Last revised:** 2019/01/2019

### Employer Responsibilities

Employers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace. This may be done in many ways. For example, employers may keep the SDSs in a binder or on computers as long as the employees have immediate access to the information without leaving their work area when needed and a back-up is available for rapid access to the SDS in the case of a power outage or other emergency. Furthermore, employers may want to designate a person(s) responsible for obtaining and maintaining the SDSs. If the employer does not have an SDS, the employer or designated person(s) should contact the manufacturer to obtain one.