

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Celada™ CM 300

1.2 Relevant identified uses of the substance or mixture and uses advised against

Celada™ CM 300 is a vapor releasing product (VP) intended for the control codling moth (*Cydia pomonella*) by mating disruption. Professional users only.

1.3 Details of the supplier of the safety data sheet

Suterra LLC
20950 NE Talus Place
Bend, OR 97701
U.S.A.
Tel: (541)388-3688
FAX: (541)388-3705
E-mail: sds@suterra.com

1.4 Emergency telephone number

LEAK, FIRE, SPILL, OR ACCIDENT: (800) 424-9300 (CHEMTREC – U.S.A. & CANADA)
(703) 527-3887 (CHEMTREC – Collect - All Other Countries)

MEDICAL: Call Doctor, Poison Control Center at 1-800-222-1222.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Skin irritation, Category 2
Aquatic Chronic. Category 2

2.2 Labels elements

Symbols and indications of danger:



WARNING.

Hazard statements

H315 Causes skin irritation
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash hands thoroughly after handling
P273 Avoid release to the environment
P280 Wear protective gloves
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice
P501 Dispose of contents/container in accordance with the normative
EUH401: To avoid risks to human health and the environment, comply with the instructions for use

2.3 Other hazards

The mixture does not meet the criteria for PBT or vPvB according to Annex XIII of Annex I Regulation (EC) No. 453/2010.

3. COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS no.	EINECS no.	Content (% w/w)	Classification* (Reg. 1272/2008):
E,E-8,10-dodecadienol	33956-49-9	251-761-2	14.25	Skin irritation, Category 2 Aquatic Acute. Category 1
Dodecanol	112-53-8	203-982-0	5.55	Eye irritation, Category 2 Aquatic Acute. Category 1 Aquatic Chronic. Category 1

*For the meaning of the indications of danger and of the risk phrases, please refer to section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

IF SWALLOWED: Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a Poison Control Center or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice

4.2 Most important symptoms and effects, both acute and delayed

None observed.

4.3 Indication of any immediate medical attention and special treatment needed

None required.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media.

Suitable extinguishing agents: dry chemical, foam, carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

Carbon oxides formed when the product is burned.

5.3 Advice for firefighters

Evacuate area of all unnecessary personnel. Collect the water used to extinguish the fire and avoid release in the sewage system. Use standard firefighting procedures.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Handle the dispensers in a well-ventilated area.

6.2 Environmental precautions

Avoid release to the environment. Keep away from drainage system, surface and ground water. Prevent infiltration of water sources and sewers.

6.3 Methods and material for containing and cleaning up

Contain the dispersion. Use absorbent material and remove in a clean container. Wastes should be disposed according to current legislation.

6.4 Reference to other sections

Please, refer to section 8 for further information on personal protection and to section 13 for the disposal of the contaminated material.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear protective clothing as described in section 8, if justified by exposure conditions. Avoid unnecessary contact with eyes and skin. Wash hands after handling. Prevent contamination of water sources, food or feed.

7.2 Conditions for safe storage, including any incompatibilities

Store in its original container in a dry, cool and well-ventilated area until is used. Avoid ignition. Protect form heat.

7.3 Specific end use(s)

Celada™ CM 300 is a vapor releasing product (VP) intended to control codling moth (*Cydia pomonella*) by mating disruption. Professional users only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits are not available for any of the substances contained in the mixture. There are no known side effects resulting from the use of the finished product.

8.2 Exposure controls

Personal protection information provided in this section is based upon general information as to normal uses and conditions.

Individual protection measures, such as personal protective equipment (professional user)

Eye/face protection: Avoid contact with eyes.

Hand protection: Use protective gloves during application during handling.

Skin protection: Avoid contact with skin.

Respiratory protection: Do not breathe vapours. No type of specific protective equipment is required.

Environmental exposure controls

Avoid release to the environment. Do not contaminate water with the product or the container.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance: Plastic dispenser.
- b) Odour: Fruity.
- c) Odour threshold: None.
- d) pH: Not applicable for the product.
- e) Melting point/freezing point: Not applicable for the product.
- f) Initial boiling point and boiling range: Not applicable for the product.
- g) Flash point: Not established for the product mixture.
- h) Evaporation rate: Not established for the product.
- i) Flammability (solid, gas): Not flammable
- j) Upper/lower flammability or explosive limits: Not available.
- k) Vapour pressure: Not applicable for the product.
- l) Vapour density: Not established for the product.
- m) Relative density: Not established for the product.
- n) Solubility (ies): Not applicable for the product. The active substance is not soluble in water.
- o) Partition coefficient n-octanol/water: Not applicable for the product. Very high for the active substance.
- p) Auto-ignition temperature: Not established for the product.
- q) Decomposition temperature: Not established for the product.
- r) Viscosity: Not applicable for the product.
- s) Explosive properties: Not applicable for the product.
- t) Oxidizing properties: Not applicable for the product.

9.2 Other information

No additional information is reported.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity reactions are known or expected to occur as to normal uses conditions.

10.2 Chemical stability

The product is stable at recommended storing conditions and for the use under the conditions reported in the label.

10.3 Possibility of hazardous reactions

No hazardous reactions are known or expected for uses according to label instructions.

10.4 Conditions to avoid

Avoid contact with excessive heat, sparks or open flames.

10.5 Incompatible materials

The technical pheromone will be degraded in presence of strong oxidant agents and oxygen. Avoid contact with strong oxidising agents.

10.6 Hazardous decomposition products

Carbon oxides are formed when the product is burned (in case of fire). No hazardous polymerization will occur.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Due to the formulation type, no studies have been performed on the end-use product. Information about the pheromone active ingredient is reported here:

Codling Moth (CM) Pheromone:

a) Acute toxicity

LD ₅₀ Oral (rat):	> 5050 mg/kg bw
LD ₅₀ Dermal (rabbit):	> 2020 mg/kg bw
LC ₅₀ Inhalation (rat):	> 2 mg/l air

b) Irritation

Eye irritation (rabbit):	Mildly-Irritating
Skin irritation (rabbit):	Moderately Irritating

c) Ames Mutation Assay: Negative.

d) Sensitization, Guinea Pig: Negative.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Due to the formulation type, no studies have been performed on the end-use product. Information about the pheromone active ingredient is reported here:

Codling Moth (CM) Pheromone:

Acute Avian LD ₅₀ Bobwhite Quail:	> 2050 mg/kg
Acute Fish 96 Hour LC ₅₀ Rainbow Trout:	> 5.87 mg/L (Above limit of water solubility)
Aquatic Invertebrate 48 Hour EC ₅₀ Daphnia	> 8.6 mg/L

12.2 Persistence and degradability

Does not apply, this product must be collected at the end of the season.

12.3 Bio-accumulative potential

No information available. Exposure not likely.

12.4 Mobility in soil

Not applicable to this product. Exposure not likely.

12.5 Results of PBT and vPvB assessment

The mixture does not meet the criteria for PBT or vPvB according to Annex XIII of Regulation (EC) No. 1907/2006.

12.6 Other adverse effects

No additional information is known on other adverse effects on the environment

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Do not discard the product into sewers or other waterways. Dispose of product in accordance with federal, state and local regulations.

Container: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

14. TRANSPORT INFORMATION

ADR/RID/AND, IMDG and IATA

Plastic hand-applied pheromone dispenser.

14.1 UN Number UN0377

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((E,E)-8,10-dodecadien-1-ol and Dodecanol).

14.3 Transport hazard class(es) III

14.4 Packaging group 9

14.5 Environmental hazards Yes

Special provision limited quantities

14.6. Special precautions for user

See sections 6 to 8 of the present safety data sheet.

14.7 transport in bulk according to annex II of the Marpol 73/78 Convention and the IBC Code

Not transported in bulk in accordance with the IBC Code.

15. REGULATORY INFORMATION

This product is a pesticide registered by the U.S. EPA and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDSs), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including the Directions for Use.

Caution: Harmful if swallowed, absorbed through the skin, or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.

U.S. EPA Registration Number 56336-79.

Product is categorized under U.S. EPA Toxicity Health Hazard Category III – CAUTION

16. OTHER INFORMATION

Version 2: Update of section 3

While this information and recommendations set forth are believed to be accurate as of the date hereof, Suterra LLC. makes no warranty with respect hereto and disclaims all liability from reliance thereon.