

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

1.1 Product identifier

Trade name: CheckMate® CM

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

CheckMate CM is a vapor dispenser (VP) for mating disruption of Codling Moth (*Cydia pomonella*).

1.3 Details of the supplier of the safety data sheet

Manufacturer:

Suterra LLC

20950 N.E. Talus Place,

Bend,

Oregon U.S.A.

Tel.: 97701-8232

E-mail: sds@suterra.com

Distributor:

Adama Makhteshim Ltd

PO Box 60

Beer Sheva 84100

ISRAEL

1.4 Emergency telephone number

In Case of Poisoning:

Tel Aviv: 03-5460111

Jerusalem: 02-6523133

Haifa: 04 8512233

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Skin Irritant, Category 2

Acute Aquatic, Category 1

2.2 Labels elements

Symbols and indications of danger:



Hazard Statements:

H315: Causes skin irritation

H400: Very toxic to aquatic life.

Precautionary Statements:

P102: Keep out of reach of children

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

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P281: Use personal protective equipment as required.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362: Take off contaminated clothing and wash before reuse.
 P405: Store locked up.
 SP1: Do not contaminate water with the product or its container.
 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 Regulation (EC) No. 1907/2006.

3. COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS no.	EINECS no.	Content (% w/w)	Classification* (Reg. 1272/2008):
(E,E)-8,10-Dodecadien-1-ol	33956-49-9	251-761-2	17,54	Skin Irritant 2, H315 Aquatic Acute 1, H400

*According to Annex VI of Regulation (EC) 1272/2008 and ECHA evaluation for registered substances. For the meaning of the hazard statements please refer to section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Skin contact: IF ON SKIN: take off contaminated clothing. Gently wash with plenty of soap and water for 15-20 minutes. If skin irritation or rash occurs: get medical advice.
 Inhalation: IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms occur, seek for medical advice.
 Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek for a doctor or call a poison control centre.

4.2 Most important symptoms and effects, both acute and delayed

Due to the type of formulation, the absence of symptoms or effects, acute and delayed, is expected.

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 are 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. Use protective gloves when handling the dispensers and handle 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. Avoid vapour inhalation. Wash hands after handling. Wash contaminated clothing before reuse. 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)

CheckMate CM is a vapor dispenser (VP) for mating disruption of Codling Moth (*Cydia pomonella*).

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 rubber or PVC gloves resistant to water during application during handling.

Skin protection: Avoid contact with skin. Use personal protective equipment as required.
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: Solid dispenser made of plastic. Content: slight yellow liquid.
- b) Odour: Sweet, 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. None of its components is.
- j) Upper/lower flammability or explosive limits: Not applicable for the product.
- k) Vapour pressure: Not applicable for the product.
- l) Vapour density: Not established for the product.
- m) Relative density: Not applicable 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 conditions of use.

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

According to the uses described on the label instructions, No hazardous reactions are known or expected.

10.4 Conditions to avoid

Avoid exposing the devices to heat (> 30 ° C) and UV rays for a long time before the opening of packages. Keep out of the reach of children.

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

The product is not been tested. The toxicity of the preparation derives from the toxicity of the active substance ((E, E) -8,10-dodecadien-1-ol) and of the coformulant dodecanol. Therefore, the data reported in this section refer to the active substance.

(E,E)-8,10-dodecadien-1-ol

a) Acute toxicity

LD₅₀ Oral (rat): > 5000 mg/kg bw

LD₅₀ Dermal (rabbit): > 2000 mg/kg bw

LC₅₀ Inhalation (rat): > 3.24 mg/l air

b) Irritation

Eye irritation (rabbit): Irritant

Skin irritation (rabbit): Irritant

c) Corrosivity: Not corrosive

d) Sensitisation

Skin sensitisation: Sensitizer

e) Repeated dose toxicity: The product contains no component classified as toxic at repeated dose

f) Carcinogenicity: The product contains no component classified as carcinogenic

g) Mutagenicity: The product contains no component classified as genotoxic or mutagenic

h) Toxicity for reproduction: The product contains no component classified as toxic for reproduction or reproduction

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The product has not been tested. The toxicity of the preparation derives from the toxicity of the active substance substance ((E, E) -8,10-dodecadien-1-ol). Therefore, the data reported in this section refer to the active substances. Due to the characteristics of the mixture, effects on soil, water, air, plants or animals are not expected.

(E,E)-8,10-dodecadien-1-ol

LC₅₀ 96 h, fish (*Oncorhynchus mykiss*): >0.685 mg/l

EC₅₀ 48 h, crustaceous (*Daphnia magna*): 0.3 mg/l

E_rC₅₀, 72 h (static), (*Scenedesmus subspicatus*): 0.221 mg/l.

LD₅₀, mammals (rats): > 5000 mg/kg pc

LD₅₀, 48h Oral bee: > 85 (µg s.a./bee)

LD₅₀, 48h Contact bee: 203.3 ± 47 (µg s.a./bee)

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 national regulation for dangerous waste.

Container: Emptied containers retain vapor and residue of preparation. Do not reuse the container. Dispose of container in accordance with national regulation for dangerous waste.

14. TRANSPORT INFORMATION

ADR/RID/AND

- 14.1 Number:** UN 3077
- 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:** 9
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** Yes
- Packaged max 5Kg. Special Provisions 375 applies.

IMDG

- 14.1 Number:** UN 3077
- 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:** 9
- 14.4 Packing group:** III
- 14.5 Marine pollutant:** Yes
- Packaged max 5Kg. Amendment 37/14 IMDG code applies

IATA

- 14.1 Number:** UN 3077
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((E,E)-8,10-dodecadien-1-ol Dodecanol)

14.3 Transport hazard class: 9
14.4 Packing group: III
14.5 Environmental hazards: Yes
Packaged max 5Kg. Special Provisions A197 applies

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This product has been evaluated by the Ministry of Agriculture and Rural Development in Israel and authorised with the registration no. 1241.

15.2 Chemical safety assessment

No chemical safety assessment is been performed. The active substances in the mixture are considered to be registered under REACH according to article 15 of Regulation (EC) no. 1907/2006.

16. OTHER INFORMATION

Version 2: General review of the MSDS.

The classification/non classification of some components contained in the product comes from the report presented by Austria to ECHA on 14/01/2011.

Meaning of the indications of danger and of the risk phrases mentioned in section 3:

H315 Causes skin irritation

H400 Very toxic to aquatic life.

This information and recommendations set forth are believed to be accurate as of the date hereof, Suterra Europe Biocontrol S.L. makes no warranty with respect hereto and disclaims all liability from reliance thereon.