

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

### 1.1 Product identifier

Trade Name: CheckMate<sup>®</sup> Puffer<sup>®</sup> CM-LR

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

CheckMate Puffer CM-LR is an aerosol dispenser (AE) intended for the control of codling moth (*Cydia pomonella*), obliquebanded leafroller (*Choristoneura rosaceana*), pandemis leafroller (*Pandemis pyrusana*), fruittree leafroller (*Archips argyrospilus*), three-lined leafroller (*Pandemis limitata*) and European leafroller (*Archips rosanus*) by mating disruption. Professional use 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](mailto: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

Flammable Aerosol, Category 2  
Eye irritant, Category 2

### 2.2 Labels elements

#### GHS Pictograms and Signal words



Warning

#### Hazard Statements

H223 Flammable aerosol  
H229 Pressurized container: May burst if heated  
H319 Causes serious eye irritation

#### Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.  
P251: Pressurized container: Do not pierce or burn, even after use  
P261: Avoid breathing vapours

P264: Wash the hands thoroughly after handling  
P280: Wear protective gloves and eye protection  
P302+P352: IF ON SKIN: Wash with plenty of soap and water  
P333+313: If skin irritation or rash occurs: Get medical advice  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P337+313: If eye irritation persists: Get medical advice.  
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F  
P501: Dispose of contents/container in accordance with national regulation for dangerous waste  
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<br>(% w/w) | Classification*<br>(Reg. 1272/2008):                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|--------------------|--------------------------------------------------------------------------------------------|
| (E,E)-8,10-Dodecadien-1-ol                                                                                                                                                                                                             | 33956-49-9 | 251-761-2  | 8.4                | STOT, SE 3, H336<br>Skin Irritant 2, H315<br>Eye Irritant 2, H319<br>Aquatic Acute 1, H400 |
| (Z)-11-Tetradecenyl Acetate                                                                                                                                                                                                            | 20711-10-8 | 243-982-8  | 15.6               | NC                                                                                         |
| Other Ingredients:<br>Other ingredients, which are maintained as trade secrets, are any substances other than an active ingredient contained in this product. Their identities are withheld because they are considered trade secrets. | NA         | NA         | 76.0               | -                                                                                          |

\*For the meaning of the indications of hazard sentences, please refer to section 16

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a Poison Control Center or doctor for treatment advice.

IF ON SKIN: 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: If breathing is difficult, 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

It can be irritating to eyes in case of contact. Propellants can freeze-burn if not used properly.

## 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 (CO<sub>2</sub>).

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

Pressurised container: May burst if heated. 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. Avoid inhalation of spray mist. 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 Puffer CM-LR is an aerosol dispenser (AE) intended for the control of codling moth (*Cydia pomonella*), obliquebanded leafroller (*Choristoneura rosaceana*), pandemis leafroller (*Pandemis pyrusana*), fruittree leafroller (*Archips argyrospilus*), three-lined leafroller (*Pandemis limitata*) and European leafroller (*Archips rosanus*) by mating disruption. Professional use 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. Use glasses during handling.                                                   |
| Hand protection:        | Use protective gloves during application and during handling.                                           |
| Skin protection:        | Avoid contact with skin. Wear long sleeves, long pants and socks when the application and manipulation. |
| 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:                                   | Individual canister placed in a special automated dispensing device (puffer aerosol cabinets). Metallic color (dispenser), light yellow liquid (content) |
| b) Odour:                                        | Waxy                                                                                                                                                     |
| 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):                    | The mixture contained in the canister is flammable, Category 2.                                                                                          |
| 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:                             | 0,98-1,02 (aerosol)                                                                                                                                      |
| 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.                                                                                                                          |

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## 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

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C (122 °F). Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. 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

The product has not been tested. The toxicity of the preparation derives from the toxicity of the active substance. Therefore, the data reported in this section refer to their active substances:

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

##### a) Acute toxicity

|                                    |                 |
|------------------------------------|-----------------|
| LD <sub>50</sub> Oral (rat):       | > 5000 mg/kg bw |
| LD <sub>50</sub> Dermal (rabbit):  | > 2000 mg/kg bw |
| LC <sub>50</sub> Inhalation (rat): | > 5.26 mg/l air |

##### b) Irritation

|                           |          |
|---------------------------|----------|
| Eye irritation (rabbit):  | Irritant |
| Skin irritation (rabbit): | Irritant |

##### c) Corrosivity:

Not corrosive

##### d) Sensitisation

|                     |                |
|---------------------|----------------|
| Skin sensitisation: | Not 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 |
| <u>(Z)-11-Tetradecenyl Acetate</u> |                                                                        |
| a) Acute toxicity                  |                                                                        |
| LD <sub>50</sub> Oral (rat):       | > 5000 mg/kg bw                                                        |
| LD <sub>50</sub> Dermal (rabbit):  | > 5000 mg/kg bw                                                        |
| LC <sub>50</sub> Inhalation (rat): | > 5.3 mg/l air                                                         |
| b) Irritation                      |                                                                        |
| Eye irritation (rabbit):           | Not Irritant                                                           |
| Skin irritation (rabbit):          | Not Irritant                                                           |
| c) Corrosivity:                    | Not corrosive                                                          |
| d) Sensitisation                   |                                                                        |
| Skin sensitisation:                | Not 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 |

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

The product has not been tested. The toxicity of the preparation derives from the toxicity of the active substances. 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

|                                                                        |             |
|------------------------------------------------------------------------|-------------|
| CL <sub>50</sub> 96 h, fish ( <i>Oncorhynchus mykiss</i> ):            | >0.685 mg/l |
| CE <sub>50</sub> 48 h, crustaceous ( <i>Daphnia magna</i> ):           | 0.3 mg/l    |
| ErC <sub>50</sub> , 72 h (static), ( <i>Scenedesmus subspicatus</i> ): | 0.221 mg/l  |

#### (Z)-11-Tetradecenyl Acetate

|                                                                        |          |
|------------------------------------------------------------------------|----------|
| CL <sub>50</sub> 96 h, fish ( <i>Oncorhynchus mykiss</i> ):            | >10 mg/l |
| CE <sub>50</sub> 48 h, crustaceous ( <i>Daphnia magna</i> ):           | 1.1 mg/l |
| ErC <sub>50</sub> , 72 h (static), ( <i>Scenedesmus subspicatus</i> ): | 1.3 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

None.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product: Do not discard the product into sewers or other waterways. Dispose of according to federal, state or local regulations.

Container: Emptied containers retain vapor and residue of preparation. Do not reuse the container. Dispose of according to federal, state or local regulations.

## 14. TRANSPORT INFORMATION

### ADR/RID/AND/IMDG/IATA

14.1 Number: UN 1950

14.2 UN proper shipping name: AEROSOL, Flammable

14.3 Transport hazard class: 2, no secondary risk.

14.4 Packing group: Not assigned

14.5 Environmental hazards: No

Limited Quantities: 1L

### 14.6. Special precautions for user

See sections 6 to 8 of the present safety data sheet. Pressurized container: protect from sunlight. Do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a flame or any incandescent material.

### 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

CheckMate Puffer CM-LR is registered with EPA (U.S. EPA Registration Number 73479-20) and is subject to certain labelling 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, inhaled or absorbed through the skin. Causes moderate eye and skin irritation. Avoid contact with eyes, skin 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. Product is categorized under U.S. EPA Toxicity Health Hazard Category III – CAUTION

## 16. OTHER INFORMATION

Version 1: Creation of the SDS

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

H225 Highly flammable liquid and vapour

H315 Causes skin irritation

H336 May cause drowsiness or dizziness

H400 Very toxic to aquatic life

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.