

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

### 1.1 Product identifier

Trade Name: CheckMate® Puffer® IMM

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

CheckMate® Puffer® IMM is an aerosol product that emits a sex pheromone component that is shared by the Indian Meal Moth (*Plodia interpunctella*), Mediterranean Flour Moth (*Ephestia kuehniella*), Raisin Moth (*Cadra figulilella*), Almond Moth (*Cadra cautella*) and Tobacco Moth (*Ephestia elutella*). The product is used in stored product scenarios to control populations of these pests via mating disruption

### 1.3 Details of the supplier of the safety data sheet

Suterra LLC  
20950 NE Talus Place  
Bend, Oregon 97701 (U.S.A.)  
TEL: (541) 388-3688  
FAX: (541) 388-3705

### 1.4 Emergency telephone number

EMERGENCY TELEPHONE NUMBERS: 1-866-326-6737  
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 or (541) 388-3688

## 2. HAZARDS IDENTIFICATION

The following determinations have been made according to the Globally Harmonized System (GHS) of Classification and Labelling of Chemicals

### 2.1 Classification of the substance or mixture

In consideration of the product formulation and characteristics the proposed classification is:  
Flammable Aerosol  
Eye irritant

### 2.2 Labels elements

#### Pictograms and signal word



Warning

#### Hazard Statements

Flammable aerosol  
Pressurized container: May burst if heated  
Causes eye irritation

#### Precautionary Statements

Keep away from heat/sparks/open flames — No smoking  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use

Version 1  
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Wear protective goggles when installing the product  
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F  
Dispose of contents/container in accordance with national regulation  
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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS no.	EINECS no.	Content (% w/w)	Classification
Ethanol	64-17-5	200-578-6	50 -60 %	Flammable Liquid Eye Irritant

## 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

If eye irritation occurs, get medical advice.

### 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 . Use protective glasses when handling the product.

## 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 and to section 13 for further information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Read the label before using the product. Wear protective clothing as described in section 8, if justified by exposure conditions. Avoid unnecessary contact with eyes and skin. Do not eat, drink or smoke while handling the product.

### 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 from sunlight and do not expose to temperatures exceeding 122 F.

### 7.3 Specific end use(s)

CheckMate® Puffer® IMM is an aerosol dispenser for mating disruption of *Plodia interpunctella*, *Ephestia kuehniella*, *Cadra figulilella*, *Cadra cautella* and *Ephestia elutella*.

## 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. Wear safety glasses when installing the product.

Hand protection: Not necessary

Skin protection: Avoid contact with skin.

Respiratory protection: No specific protective equipment is required.

Environmental exposure controls

Avoid release to the environment. Do not contaminate water with the product or the container. Do not reuse the empty containers that must be dispose according to the national regulation.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

a) Appearance:	Metallic color (dispenser), Limpid liquid (content)
b) Odour:	Aromatic
c) Odour threshold:	None
d) Ph (room temperature):	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 product is classified as a flammable aerosol (Category2)
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:	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.

**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 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.

Version 1

Revision date: 24.06.2021

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Page 4 of 7

The logo for Suterra, featuring the word "Suterra" in a bold, black, sans-serif font. A registered trademark symbol (®) is located to the upper right of the letter 'a'. Below the text is a stylized green swoosh that starts under the 'S', goes under the 't', and ends under the 'a'.

**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.

- a) Acute toxicity
- |                                    |                 |
|------------------------------------|-----------------|
| LD <sub>50</sub> Oral (rat):       | > 2000 mg/kg bw |
| LC <sub>50</sub> Inhalation (rat): | > 6.72 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: Not toxic for repeated exposure
- f) Carcinogenicity: Not carcinogenic
- g) Mutagenicity: Not genotoxic or mutagenic
- h) Toxicity for reproduction: Not 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 substance.

LC <sub>50</sub> 96 h, fish ( <i>Brachydanio rerio</i> ):	Not toxic
EC <sub>50</sub> 48 h, crustaceous ( <i>Daphnia magna</i> ):	Not toxic
LD <sub>50</sub> 48 h, bird ( <i>Colinus virginianus</i> ):	Not toxic

**12.2 Persistence and degradability**

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

**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

**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 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: LQ-1L, Gross weight < 30 Kg

### IMDG

**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 Marine pollutant:** No  
Limited Quantities: LQ-1L, Gross weight < 30 Kg

### 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: LQ-1L, Gross weight < 30 Kg

### **14.6. Special precautions for user**

Pressurized container: protect from sunlight and 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

This product has been reviewed by the U.S. Environmental Protection Agency (EPA) and it is authorised under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

EPA Registration Number: 73479-16

## 16. OTHER INFORMATION

Version 1: General review of the MSDS

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.