

SAFETY DATA SHEET

SECTION I – IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

TRADE NAMES: Puffer® CM

CheckMate® Puffer CM-O CheckMate® Puffer CM-O Pro

Puffer® Codling Moth Pheromone Confusing Agent

SYNONYMS: Codlemone Aerosol

USE: Codling Moth Puffer is an aerosol product that emits the pheromone of the codling moth

(Cydia pomonella). The product is used in agriculture to control populations of these pests

via mating disruption.

COMPANY IDENTIFICATION: Suterra LLC

20950 NE Talus Place Bend, Oregon 97701

U.S.A.

TEL: (541) 388-3688 FAX: (541) 388-3705

EMERGENCY TELEPHONE NUMBERS:

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

SECTION II – HAZARDS IDENTIFICATION

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



GHS Signal Word: WARNING GHS Symbols:

GHS Hazard Statements:

Harmful if inhaled

Causes skin irritation

Causes eye irritation

Flammable aerosol

GHS Precautionary Statements:

Avoid breathing vapor. Use only outdoors or in a well ventilated area.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

Use protective gloves and protective garments to prevent excessive skin contact when handling.

Keep away from heat/sparks/open flames/hot surfaces. No Smoking. Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

GHS Response Statements:

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a Poison Control Center or doctor for advice if you feel unwell.

If on skin or clothing: Take off contaminated clothing and wash before reuse. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for advice if you feel unwell, or if skin irritation occurs.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

GHS Storage Statements:

Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

SECTION III - COMPOSITION					
PRINCIPAL COMPONENT(S)	CAS NO.	CHEMICAL	APPROXIMATE		
		FORMULA	w/w%		
E,E,-8,10-Dodecadien-1-ol (Codlemone)	33956-49-9	C ₁₂ H ₂₂ O	10-20		
Ethanol	64-17-5	C ₂ H ₅ OH	40-60		
1,1,1,2-Tetrafluoroethane	811-97-2	$C_2H_2F_4$	40-60		

SECTION IV – FIRST AID MEASURES

EYE

CONTACT: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if

worn after the first five minutes and continue rinsing. Call a doctor or Poison Control Center for

advice.

SKIN

CONTACT: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Call a doctor or Poison Control Center for advice.

INHALATION: 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 doctor or Poison Control Center for

advice.

INGESTION: Call a doctor or Poison Control Center 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.

SECTION V – FIREFIGHTING MEASURES				
FLASH POINT	FLAMMABLE LIMITS	LEL	UEL	
(Method Used)	(% by Volume in Air)			
Aerosol flame projection is	Not established.	Not established.	Not established.	
15-30 cm, with no flashback.	Trot established.	Tiot established.	Tior established.	
FXTINGUISHING MEDIA: Dry Chemical Foam Carbon Dioxide (COo)				

Dry Chemical, Foam, Carbon Dioxide (CO₂)

UNUSUAL FIRE AND

EXPLOSION HAZARDS: Carbon oxides formed when burned. Hydrocarbon fumes and smoke. Heat will cause

pressurized containers to explode.

ADVICE FOR FIREFIGHTERS: Evacuate area of all unnecessary personnel. Use standard fire fighting procedures.

Containers will explode if heated to high enough temperatures. Use water fogging nozzle

to cool containers.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Since the product is contained in individual steel pressurized containers they may be picked up and reused. If the containers are dented they may be returned. If the container is punctured, contain the spill. Make a dike around the outside edges of the spill. Use absorbent materials such as vermiculite, cat litter or spill pillows. The neutralized spill residue with the absorbent should be scooped, swept, or otherwise placed into a waste bucket or other container. The neutralized spill residue must be disposed of in accordance with appropriate Federal, State, local regulation. Any remaining residues may be washed up with detergent and water. Avoid dispersal of spilled material and runoff or contact with soil, water sources, drains and sewers.

SECTION VII – HANDLING AND STORAGE

Wear protective equipment described in Section VIII. Avoid skin and eye contact. Avoid breathing vapors. Store in cool, well ventilated area. Protect from ignition. Wash hands after handling. Do not allow product to contaminate water sources, food or feed.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

RECOMMENDED EXPOSURE LIMITS: None established for end-use product.

For undiluted 1,1,1,2-Tetrafluoroethane / propellant:

AIHA WEEL (United States 5/2010) TWA 1000 ppm 8 hours.

LISTED AS CARCINOGEN

BY NTP, IARC, OR OSHA: No.

OTHER HEALTH EFFECTS: No known adverse effects expected.

HEALTH HAZARD CATEGORIES: EPA Toxicity Category: III - CAUTION.

EFFECTS OF OVEREXPOSURE EYE CONTACT: Pheromone is mildly irritating. Propellant can freeze-burn the eyes if directed at eyes.

Pheromone is moderately irritating. Propellant can freeze burn skin if directed at skin. SKIN CONTACT:

Avoid breathing vapors when in confined areas. INHALATION:

INGESTION: Due to product form ingestion is not considered likely. Harmful if ingested. Avoid swallowing product.

CHRONIC: Long-term studies have not been done on the concentrated active ingredient, however, no adverse effects expected.

EXPOSURE CONTROLS

RESPIRATORY

PROTECTION: Not generally required under normal use conditions.

PROTECTIVE

GLOVES: Use chemical resistant gloves when handling dispensers.

EYE PROTECTION: Wear protective eyewear. OTHER PROTECTIVE

EQUIPMENT: Not generally required under normal use conditions.

VENTILATION: Use adequate ventilation.

NOTE: Personal protection information provided in this Section is based upon label information as to

normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that

the expert assistance of an industrial hygienist or other qualified professional be sought.

SECTION IX -PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Aerosol canister			
ODOR	Mild fruity odor.			
MOLECULAR WEIGHT	Not established for end-use aerosol. 182 for CM pheromone active ingredient.			
рН	Not established			
SOLUBILITY IN WATER	Not applicable for end-use aerosol. 20 mg/L @ 22.5°C for CM pheromone active ingredient.			
BOILING POINT	Not applicable for end-use aerosol.			
MELTING POINT	Not applicable for end-use aerosol.			
FLASH POINT	Aerosol flame projection is 15 to 45 cm, with no flashback			
FLAMMABILITY	Product is flammable.			
SPECIFIC GRAVITY (H ₂ O = 1)	0.96			
EXPLOSIVE PROPERTIES	Not established			
OXIDIZING PROPERTIES	Not an oxidant or reductant			
SECTION Y STARILITY AND DEACTIVITY DATA				

SECTION X – STABILITY AND REACTIVITY DATA

STABILITY: The product is stable. No dangerous reactions are expected.

Pheromone is sensitive to heat and light.

INCOMPATIBILITY: Pheromone to strong oxidizing agents. Canister to heat or open flame.

HAZARDOUS DECOMPOSITION

PRODUCTS: Decomposition products of combustion may include: Hydrogen fluoride, carbon

oxides, fluorocarbons, carbonyl fluoride and halogenated compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

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:

 $\begin{array}{lll} \text{LD}_{50}, \text{Oral, Rat:} & > 5050 \text{ mg/kg} \\ \text{LD}_{50}, \text{Dermal, Rabbit:} & > 2020 \text{ mg/kg} \\ \text{LD}_{50}, \text{Intratracheal, Rat:} & > 2 \text{ mg//L} \\ \text{Eye Irritation, Rabbit:} & \text{Mildly irritating.} \\ \text{Skin Irritation, Rabbit:} & \text{Moderately irritating.} \end{array}$

Ames Mutation Assay: Negative.
Sensitization, Guinea Pig: Negative.
Carcinogenicity: No data found
Reproductive toxicity: No data found
Target organ toxicity: No data found

SECTION XII - ECOLOGICAL INFORMATION

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

Codling Moth (CM) Pheromone:

Acute Avian LD₅₀ Bobwhite Quail: > 2050 mg/kg

Acute Fish 96 Hour LC₅₀ Rainbow Trout: > 5.87 mg/L (Above limit of water solubility)

Aquatic Invertebrate 48 Hour EC₅₀ Daphnia > 8.6 mg/L

SECTION XIII - DISPOSAL CONSIDERATIONS

ENVIRONMENTAL HAZARDS/ WASTE DISPOSAL:

Used canisters should be wrapped in newspaper, placed in garbage bags and discarded. Do not reuse or refill containers. Discard in trash or at an approved waste disposal facility. If can is empty offer for recycling. Dispose of in accordance with local, state, and federal regulations.

USED DISPENSERS AND CONTAINER DISPOSAL:

Nonrefillable container. Do not reuse or refill this container. Remove empty container from cabinet, wrap in newspaper, place in garbage bag and discard in trash or at an approved waste disposal facility. Do not puncture or incinerate. If can is empty offer for recycling.

SECTION XIV - TRANSPORT INFORMATION

TRANSPORT BY GROUND:

Description: Aerosols, flammable, (each not exceeding 1 L capacity)

Hazard Class: 2.1

Identification Numbers: UN1950
Packing Group: Not Applicable

Flashpoint: Aerosol flame projection is 15-30 cm, with no flashback.

TRANSPORT BY AIR:

Description: Aerosols, flammable

Hazard Class: 2.1
Identification Numbers: UN1950
Hazard Label(s): Flammable gas
Packing Group: Not Applicable

Flashpoint: Aerosol flame projection is 15-30 cm, with no flashback.

SECTION XV – REGULATORY INFORMATION

REGULATORY LICENSE:

This chemical is a pesticide product 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, inhaled or absorbed through the skin. Causes moderate eye and skin irritation. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. 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 Numbers 73479-2, 73479-9 and 73479-12 Product is categorized under U.S. EPA Toxicity Health Hazard Category III – CAUTION This crop protection product is also registered for sale in: Argentina, Australia, New Zealand and South Africa.

SECTION XVI – OTHER INFORMATION

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.

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Preparer: T. Tipton