

MATERIAL SAFETY DATA SHEET

SUTERRA LLC

20950 NE Talus Place, Bend, Oregon U.S.A. 97701
EMERGENCY PHONE NUMBER: (541) 388-3688

SECTION I			
TRADE NAME:	CheckMate® Puffer CM-OFM		
SYNONYMS:	Codlemone/OFM Aerosol		
REGULATORY LICENSE:	EPA Registration No. 73479-11		
CHEMICAL FAMILY:	Unsaturated Aliphatic Ester/Alkenes		
SECTION II - COMPONENTS			
PRINCIPAL COMPONENT(S)	CAS NO.	CHEMICAL FORMULA	
E,E,-8,10-Dodecadien-1-ol (Codlemone)	33956-49-9	C ₁₂ H ₂₂ O	
Z-8-dodecen-1-yl acetate (OFM)	28079-04-1	C ₁₄ H ₂₆ O ₂	
E-8-dodecen-1-yl acetate (OFM)	38363-29-0	C ₁₄ H ₂₆ O ₂	
Z-8-dodecen-1-ol (OFM)	40642-40-8	C ₁₂ H ₂₄ O	
Ethanol	64-17-5	C ₂ H ₅ OH	
1,1,1,2-Tetrafluoroethane	811-97-2	C ₂ H ₂ F ₂	
None of the ingredients of this material meet the definition of "Hazardous Chemical" given in OSHA Hazard Communication Regulation 29 CFR 1910.1200(c). The information on this form is furnished as a customer service.			
SECTION III - PHYSICAL DATA			
BOILING POINT (°C)	Not applicable for end-use aerosol. 70°C (CM)/230 °C OFM blend.	MELTING POINT	Not applicable for end-use aerosol. ~28.5°C CM.
VAPOR PRESSURE (mm Hg)	Not applicable for end-use aerosol. Not established for pheromone.	VAPOR DENSITY (AIR = 1)	Not applicable
SOLUBILITY IN WATER	Not applicable for end-use aerosol. Low solubility for pheromone.	MOLECULAR WEIGHT	Not established for end-use aerosol. 182 CM/636 OFM.
SPECIFIC GRAVITY (H ₂ O = 1)	0.957	APPEARANCE AND ODOR	Clear, fruity, solvent odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method Used)	FLAMMABLE LIMITS (% by Volume in Air)	LEL	UEL
15-45 cm with no flash back. Product is flammable	Not established.	Not established.	Not established.
EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide (CO ₂)			
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area of all unnecessary personnel. Use standard fire fighting procedures. Containers will explode if heated to high enough temperatures			
UNUSUAL FIRE AND EXPLOSION HAZARDS: Carbon oxides formed when burned.			
SECTION V - HEALTH HAZARD DATA			
TOXICITY DATA			
None of the ingredients of these materials meet the definition of "Hazardous Chemical" given in OSHA Hazard Communication Regulation 29 CFR 1910.1200(c). The information on this form is furnished as a customer service.			
<u>For pheromone ingredients:</u>			
LD ₅₀ , Oral, Rat: > 5050 mg/kg			
LD ₅₀ , Dermal, Rabbit: > 2020 mg/kg			
LD ₅₀ , Intratracheal, Rat: > 2.50 ml/kg (>5 mg/L)			
Eye Irritation, Rabbit: Minimally irritating.			
Skin Irritation, Rabbit: Moderately irritating.			
Ames Mutation Assay: Negative.			
EFFECTS OF OVEREXPOSURE			
EYE CONTACT: Pheromone is minimally irritating. Propellant can freeze-burn the eyes if directed at eyes.			
SKIN CONTACT: Pheromone is moderately irritating. Propellant can freeze burn skin if directed at skin			
INHALATION: Avoid breathing vapors when in confined areas.			
INGESTION: Due to product form ingestion is not considered likely.			
CHRONIC: Long-term studies have not been done on the concentrated active ingredient, however, no adverse effects expected.			

EMERGENCY AND FIRST AID PROCEDURES

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.

RECOMMENDED EXPOSURE LIMITS:	None established.
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.

SECTION VI - REACTIVITY DATA

STABILITY:	Pheromone is sensitive to heat and light.
INCOMPATIBILITY:	Pheromone to strong oxidizing agents. Canister to heat or open flame.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon oxides formed when burned.
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	Large spills can be picked up if not leaking. Protect from ignition. Keep out of water sources or sewers.
ENVIRONMENTAL HAZARDS/ WASTE DISPOSAL:	Used canisters should be wrapped in newspaper, placed in garbage bags and discarded. Do not reuse containers. Discard in trash. Dispose of in accordance with local, state, and federal regulations.
USED DISPENSERS AND CONTAINER DISPOSAL:	Used containers should be wrapped in newspaper, place in garbage bag and discarded in trash. Do not reuse containers. Discard in trash.

SECTION VIII - SPECIAL PROTECTION INFORMATION

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 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE, ETC.
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 X - REGULATORY INFORMATION

Suterra LLC is unaware of any local, state or federal regulations which define the active ingredient as hazardous.
As of the preparation date, this product did not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
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.

Date: 03/18/2010
Supersedes: 12/02/08
Contact: Richard W. Fresh, Regulatory Affairs, Suterra LLC