

MATERIAL SAFETY DATA SHEET

SUTERRA LLC

20950 NE Talus Place, Bend, Oregon U.S.A. 97701

EMERGENCY PHONE NUMBER: (541) 388-3688

Section 1			
TRADE NAME:	CheckMate® OFM-F		
SYNONYMS:	Codlemone/OFM dispenser		
REGULATORY LICENSE:	EPA Registration No. 56336-24		
CHEMICAL FAMILY:	Not applicable. The product consists of polymeric micro-beads containing the oriental fruit moth pheromone. The beads are held in an aqueous suspension.		
SECTION II - COMPONENTS			
PRINCIPAL COMPONENT(S)	CAS NO.	CHEMICAL FORMULA	
Z-8-dodecen-1-yl acetate	28079-04-1	$C_{14}H_{26}O_2$	
E-8-dodecen-1-yl acetate	38363-29-0	$C_{14}H_{26}O_2$	
Z-8-dodecen-1-ol	40642-40-8	$C_{12}H_{24}O$	
Water	7732-18-5	H_2O	
SECTION III - PHYSICAL DATA			
PHYSICAL DESCRIPTION: Polymeric micro-beads containing the oriental fruit moth pheromone held in an aqueous suspension.			
BOILING POINT (°C)	~100°C for water component. 230°C for pheromone.	MELTING POINT	Not applicable for formulation, liquid.
VAPOR PRESSURE (mm Hg)	Not established for pheromone.	VAPOR DENSITY (AIR = 1)	Not applicable for formulation. >1 for pheromone.
SOLUBILITY IN WATER	Low solubility for pheromone.	MOLECULAR WEIGHT	Pheromone Blend = 636
SPECIFIC GRAVITY (H ₂ O = 1)	0.97	APPEARANCE AND ODOR	Solid micro-beads containing pheromone in an aqueous suspension. Has a faint fruity, oily odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used)	FLAMMABLE LIMITS (% by Volume in Air)	LEL	UEL
Not applicable ~70% water.	Not applicable. ~70% water.	Not applicable. ~70% water.	Not applicable. ~70% water.
EXTINGUISHING MEDIA:	Not applicable ~70% water.		
SPECIAL FIRE FIGHTING PROCEDURES:	Not applicable.		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None.		

SECTION V - HEALTH HAZARD DATA**TOXICITY DATA**

The toxicity of the product is determined by the toxicity of the pheromone active ingredient blend.

LD ₅₀ , Oral, Rat:	>5050 mg/kg
LD ₅₀ , Dermal, Rabbit:	>5050 mg/kg
LD ₅₀ , Intratracheal, Rat:	> 150 mg/animals; equivalent to inhalation LC ₅₀ >5 mg/L
Eye Irritation, Rabbit:	Mildly irritating in unwashed eye. Minimally irritating in washed eye.
Dermal Irritation, Rabbit:	Moderate irritant.
Ames Mutation Assay:	Non-mutagenic with and without microsomal activation.

EFFECTS OF OVEREXPOSURE

EYE CONTACT:	May cause transient irritation.
SKIN CONTACT:	May cause transient irritation.
INHALATION:	Not a likely route of exposure due to product form.
INGESTION:	May cause upset stomach in large doses.
CHRONIC:	Long-term studies on the concentrated active ingredients have not been done; however, no adverse effects expected from formulation or active ingredients.

EMERGENCY AND FIRST AID PROCEDURES

EYE

CONTACT: 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.

SKIN

CONTACT: Take off contaminated clothing. Rinse immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment 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 poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor 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: Stable.

INCOMPATIBILITY: Strong oxidizing agents and oxygen.

**HAZARDOUS
DECOMPOSITION
PRODUCTS:** In large fires where water boils off carbon oxides and urea combustion products may be formed.

**HAZARDOUS
POLYMERIZATION:** Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURE

**STEPS TO BE TAKEN IN CASE
MATERIAL IS RELEASED OR SPILLED:** Contain spill by diking. Use absorbent and shovel into a clear container.

**ENVIRONMENTAL HAZARDS/
WASTE DISPOSAL:** Dispose at an approved waste disposal facility. Do not contaminate water sources.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required under normal use conditions.

PROTECTIVE GLOVES: Applicators and other handlers must wear waterproof gloves.

EYE PROTECTION: None required under normal use conditions.

OTHER PROTECTIVE EQUIPMENT: Applicators and other handlers must wear long-sleeved shirt, long pants and shoes plus socks.

VENTILATION: None required under normal use conditions.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE, ETC.

Do not contaminate water, food, or feed. Store in a cool place. Protect from freezing.

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: 09/23/2010

Supersedes: 5/31/07

Contact: Richard W. Fresh, Regulatory Affairs, Suterra LLC