

SAFETY DATA SHEET

SECTION I – IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY				
TRADE NAME:	Puffer [®] NOW			
SYNONYMS:	NOW Aerosol			
USE:	Puffer [®] NOW is an aerosol product that emits the pheromone of the navel orangeworm (<i>Amyelois transitella</i>). The product is used in agriculture to control populations of this pest 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		
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 - COMPOSITION				
PRINCIPAL CO	MPONENT(S)	CAS NO.	CHEMICAL FORMULA	
(Z,Z)-11,13-Hexadecadienal		71317-73-2	C ₁₆ H ₂₈ O	
1,1,1,2-Tetrafluoroethane		811-97-2	$C_2H_2F_4$	

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, then continue rinsing eye. Call a doctor or Poison Control Center for advice.			
SKIN				
CONTACT:		minated clothing. Rin r Poison Control Cen		enty of water for 15-20 minutes.
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.				
	SE	CTION V - FIREF	IGHTING MEASURES	
FLASH POINT		ABLE LIMITS	LEL	UEL
(Method Used)	(% by Vo	lume in Air)		
>13 (closed cup) Product is flammable	Not estab	lished.	Not established.	Not established.
EXTINGUISHING MEI	DIA: Dry C	hemical, Foam, Carb	on Dioxide (CO ₂)	
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.				
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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 the resulting release may be washed up with detergent and water. Keep out of water sources or 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.				
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 moderately to severely 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:	Harmful if ingested. Avoid swallowing product.			
CHRONIC:	Long-term studies have not been done on the concentrated active ingredient, however, no adverse effects expected from normal use.			
	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	Waxy, solvent odor.			
MOLECULAR WEIGHT				
pH	Not established			
SOLUBILITY IN WATE				
BOILING POINT	78°C for the concentrate.			
MELTING POINT	Not applicable for end-use aerosol.			
FLASH POINT	>13 (Closed cup).			
FLAMMABILITY	Product is flammable.			
SPECIFIC GRAVITY (F				
SPECIFIC GRAVITY (H EXPLOSIVE PROPERT				

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:	Carbon oxides formed when burned. Hydrocarbon fumes and smoke.	
HAZARDOUS POLYMERIZATION:	Will not occur.	
SECTIO	DN XI – TOXICOLOGICAL INFORMATION	
Due to the formulation type, no studies hav Information about the pheromone active ing		
Navel Orangeworm (NOW) Pheromone:		
LD ₅₀ , Oral, Rat: > 5000 mg/kg		
LD_{50} , Dermal, Rabbit: > 2020 mg/kg		
LD_{50} , Intratrachael, Rat: > 5.00 mg//L		
Eye Irritation, Rabbit:Moderate to sevenSkin Irritation, Rabbit:Moderately irritation		
SECT	ION XII – ECOLOGICAL INFORMATION	
Due to the formulation type, no studies hav The ecological toxicity of the pheromone wi	e been performed on the end-use product. Il be similar to the toxicity of other Straight-Chain Lepidopteran pheromones, i.e.:	
	nammals, birds, and aquatic organisms) are not expected because the pheromone is onment and acts on select species of insects.	
SECT	ION XIII – DISPOSAL CONSIDERATIONS	
ENVIRONMENTAL HAZARDS/ WASTE	E DISPOSAL:	
	wrapped in newspaper, placed in garbage bags and discarded. Do not l in trash. Dispose of in accordance with local, state, and federal regulations.	
USED DISPENSERS AND CONTAINER	DISPOSAL:	
Used containers should b Do not reuse containers.	e wrapped in newspaper, place in garbage bag and discarded in trash. Discard in trash.	

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:	>13 (closed cup)

TRANSPORT BY AIR:

Description:	Aerosols, flammable
Hazard Class:	2.1
Identification Numbers:	UN1950
Hazard Label(s):	Flammable gas
Packing Group:	Not Applicable
Flashpoint:	>13 (closed cup)

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 Number 73479-3 Product is categorized under U.S. EPA Toxicity Health Hazard Category III – CAUTION

SECTION XVI – OTHER 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.

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Preparer: T. Tipton