

Suterra®

SAFETY DATA SHEET

SECTION I – IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

TRADE NAME: BioAmp-AA

SYNONYMS: Adjuvant formulation for Argentine Ant.

USE: BioAmp-AA is a sprayable aqueous suspension of microbead dispensers each encapsulating the trail pheromone of the Argentine Ant (*Linepithema humile*). This product is added to insecticide sprays in order to increase ant movement and thus, exposure to the insecticide. The product has no insecticidal properties on its own.

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:

Based upon the toxicological properties of all ingredient components and quantities present in the formulation, no GHS signal words, hazard symbols, hazard statements, precautionary statements, response statements or storage statements are applicable to this product.

This product is not a hazardous chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION III - COMPOSITION

PRINCIPAL COMPONENT(S)	CAS NO.	CHEMICAL FORMULA	APPROXIMATE W/W %
(Z)-9-Hexadecenal	56219-04-6	C ₁₆ H ₃₀ O	<1
Water	7732-18-5	H ₂ O	>99

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 further treatment 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 (Method Used)	FLAMMABLE LIMITS (% by Volume in Air)	LEL	UEL
Not established for formulation. 152°C for ant trail pheromone. (Cleveland open cup)	Not established.	Not established.	Not established.

EXTINGUISHING MEDIA: Not applicable. Formulation is > 99% water. If water boils off use the following:
Dry Chemical, Foam, Carbon Dioxide (CO₂)

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

ADVICE FOR FIREFIGHTERS: Evacuate area of all unnecessary personnel. Use standard fire fighting procedures. Carbon oxides formed when burned.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Wear protective gloves, clothing and eye protection. Contain spill by diking. Use absorbent and shovel into a clean container. Protect from ignition. Keep out of water sources or sewers.

SECTION VII – HANDLING AND STORAGE

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

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:	None established.

EFFECTS OF OVEREXPOSURE	
EYE CONTACT:	Moderately irritating for full strength ant trail pheromone. Avoid contact with eyes. Due to product form significant exposure is not expected.
SKIN CONTACT:	Moderately irritating for full strength ant trail pheromone. Avoid contact with skin. Due to product form significant exposure is not expected.
INHALATION:	Avoid breathing vapors when in confined areas.
INGESTION:	Due to product form ingestion is not considered likely. May cause upset stomach in large doses.
CHRONIC:	Long-term studies have not been done on the concentrated active ingredient, however, no adverse effects expected from use of product.
EXPOSURE CONTROLS	
RESPIRATORY PROTECTION:	Not generally required under normal use conditions. If heated and/or pheromone becomes aerosolized, use NIOSH/MSHA approved air-purifying respirator with organic vapor sorbent. Use NIOSH/MSHA approved respiratory protection, such as air-supplied mask, for entry into confined spaces or other poorly ventilated areas.
PROTECTIVE GLOVES:	Wear protective gloves to keep product off of hands.
EYE PROTECTION:	None required under normal use conditions.
OTHER PROTECTIVE EQUIPMENT:	Wear protective garments to prevent excessive skin contact.
VENTILATION:	None required under normal use conditions. Use adequate ventilation if handling indoors.
NOTE:	Personal protection information provided in this Section is based upon label information for similar pheromone sprayable products that utilize only Straight -Chained Lepidopteran Pheromones (SCLPs) as active ingredients under 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	Solid microcapsules containing ant trail pheromone in aqueous suspension. Ant trail pheromone is a transparent light yellow liquid at room temperature.
ODOR	Not established for end-use formulation. Ant trail pheromone has a mild waxy odor.
MOLECULAR WEIGHT	Not applicable for end-use formulation. ~238 for ant trail pheromone.
pH	Not established.
SOLUBILITY IN WATER	Not applicable for end-use product which consists of microcapsules in an aqueous suspension. Ant trail pheromone is not soluble in water.
BOILING POINT	Not established for end-use formulation. 138-142°C @ 1mmHg for ant trail pheromone.
MELTING POINT	Not established.
FLASH POINT	Not established. 152°C for ant trail pheromone (Cleveland open cup).
VAPOR PRESSURE	Not established for end-use formulation. 1.0-3.0 x 10 ⁻³ mmHg for ant trail pheromone.
FLAMMABILITY	Not established.

SPECIFIC GRAVITY (H ₂ O = 1)	Not established for end-use formulation. 0.84:0.85 @ 20°C for ant trail pheromone.
EXPLOSIVE PROPERTIES	Not established
OXIDIZING PROPERTIES	Contains no oxidizing/reducing agents.
SECTION X – STABILITY AND REACTIVITY DATA	
STABILITY:	The product is stable. No dangerous reactions are known or expected from the use of the formulation as labeled. Pheromone is sensitive to heat and light.
INCOMPATIBILITY:	None. Formulation is stable to heat and UV-light as packaged. Formulation will degrade in the presence of strong oxidizing agents and oxygen.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon oxides formed when burned.
HAZARDOUS POLYMERIZATION:	Will not occur.
SECTION XI – TOXICOLOGICAL INFORMATION	
<p>Due to the formulation type, no studies have been performed on the end-use adjuvant product. Information about the pheromone attractant is reported here:</p> <p>Specific test values not established for ant trail pheromone. Using the U.S. EPA Straight-Chained Lepidopteran Pheromone (SCLP) similarity argument, the toxicity of the subject pheromone attractant is placed into EPA toxicity category III-IV: CAUTION. The oral toxicity is estimated to be higher than 5,000 mg/kg. The dermal toxicity is estimated to be higher than 2,000 mg/kg. Eye and skin irritation is estimated to be moderate.</p> <p>This SCLP attractant is exempted from the requirement of a tolerance on food and feed (40 CFR § 180.1153 / Federal Register 71: 45395-45400 August 9, 2006).</p>	
SECTION XII – ECOLOGICAL INFORMATION	
<p>Due to the formulation type, no studies have been performed on the end-use product. The ecological toxicity of the pheromone attractant is similar to the toxicity of other Straight-Chain Lepidopteran pheromones (SCLPs). Comparison with chemically similar synthetically produced replicas of naturally occurring SCLPs indicate little, if any, non-target organism toxicity, and no significant environmental fate concerns for soil, water or air. Adverse effects on non target organisms (mammals, birds, and aquatic organisms) are not expected because the pheromone attractant is released in very small amounts to the environment and acts only on select species of insects.</p>	
SECTION XIII – DISPOSAL CONSIDERATIONS	
<p>ENVIRONMENTAL HAZARDS / WASTE DISPOSAL:</p> <p style="padding-left: 40px;">DO NOT contaminate water, food, or feed by storage and disposal. For terrestrial uses. DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water when disposing of equipment washwater. Dispose of in accordance with local, state, and federal regulations.</p>	

CONTAINER DISPOSAL:

Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or mix tank. Fill container 1/4 full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and or dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

SECTION XIV – TRANSPORT INFORMATION**TRANSPORT BY GROUND:**

Description: Solid microcapsules containing pheromone in an aqueous suspension.
Hazard Class: Not applicable – Not classified as dangerous.
Identification Numbers: Unclassified.
Packing Group: Not applicable.
Flashpoint: Not established for end-use formulation. Formulation is > 99% water.
152°C for ant trail pheromone.

TRANSPORT BY SEA:

Description: Solid microcapsules containing pheromone in an aqueous suspension.
Hazard Class: IMDG – Not classified as dangerous.
Identification Numbers: Unclassified.
Packing Group: Not applicable.
Flashpoint: Not established for end-use formulation. Formulation is > 99% water.
152°C for ant trail pheromone.

TRANSPORT BY AIR:

Description: Solid microcapsules containing pheromone in an aqueous suspension.
Hazard Class: Not applicable – Not classified as dangerous.
Identification Numbers: Unclassified.
Packing Group: Not applicable.
Flashpoint: Not established for end-use formulation. Formulation is > 99% water.
152°C for ant trail pheromone.

SECTION XV – REGULATORY INFORMATION

REGULATORY LICENSE: This adjuvant product is exempt from federal / U.S. EPA registration requirements. The product has no pest control properties of its own, and is used only to increase the effectiveness of registered pesticides that it is intended to be used in conjunction with.

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