



MATERIAL SAFETY DATA SHEET

PRODUCT & COMPANY INFORMATION

PRODUCT CODE: #071-B2008 AND #071A-B10012
PRODUCT NAME: MUSCA DOMESTICA LURE / ADVANTAGE FLY BANQUET
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COMPOSITION/INFORMATION ON INGREDIENTS

Product Description: This product consists of 12.5 g of powder formulation of Muscalure and inert ingredients; this is the pheromone component of Domestic fly (*Musca domestica*). This product is further sealed in an impermeable bag for shipping and storage.

Product Function: The product is intended for use as an attractant for the Domestic Fly (*Musca domestica*).

Active Ingredient: (Z)-9-Tricosene
CAS#: 27519-02-4

Molecular formula: $C_{23}H_{46}$
Molecular weight: 322.61

Other components: Non hazardous food type ingredients. The product does not contain allergenic type of food ingredients such as peanuts or nuts, seeds, animal tissues, animal blood or bones or shells.

HAZARD IDENTIFICATION FOR ACTIVE INGREDIENTS

HMIS® Rating
Health: 0
Flammability: 0
Reactivity: 0
Not hazardous, Not a Dangerous Good.

Safety Phrases: S22, S25. Do not breathe dust. Avoid contact with eyes.
UN Number: None allocated.



FIRST AID MEASURES FOR ACTIVE INGREDIENTS

- ORAL EXPOSURE:** Rinse your mouth with sufficient water.
- INHALATION EXPOSURE:** Active ingredient emitted at less than 0.01mg/day. Therefore active ingredient difficult to inhale in formulated product.
- EYE EXPOSURE:** In case of contact with eyes resulting in irritation flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.
- DERMAL EXPOSURE:** In case of skin contact resulting in irritation flush with copious amounts of water for at least 15 minutes.

FIRE FIGHTING MEASURES – Formulated Product

- FLASH POINT:** N/A
- AUTOIGNITION TEMPERATURE:** N/A
- FLAMMABILITY:** N/A
- EXTINGUISHING MEDIA:** Water spray. Carbon dioxide, dry chemical powder or appropriate foam.
- FIRE FIGHTING INSTRUCTIONS:** Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Formulation combustible. Emits toxic fumes under fire conditions.

ACCIDENTAL RELEASE MEASURES

Procedure to be followed in case of leak or spill:

Sweep up the powder and collect or dispose of in approved manner. If the spill is liquid made of water and the powder, dry with paper or cloth material or rinse the surface with water.

Procedure of personal precaution(s):

No protective apparatus necessary for clean-up.

Methods for cleaning up:

Sweep up material and dispose of in approved manner.



HANDLING AND STORAGE

HANDLING: Keep the attractant inside sealed package until use.

STORAGE: Suitable: Keep away from heat, sparks and open flame; store at or below 25°C

EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: No open flames.

Personal Protective Equipment: No respiratory equipment required.

Hand: Compatible chemical resistant gloves recommended for prolonged handling.

Eye: No precautions necessary if devices are handled in prescribed manner.

General Hygiene Measures: Wash contaminated clothing before re-use. Wash thoroughly after handling.

PHYSICAL AND CHEMICAL PROPERTIES OF THE ACTIVE INGREDIENT

APPEARANCE: Clear, almost colorless.

ODOR: None reported.

VAPOR PRESSURE: Not available

VAPOR DENSITY: 11.47

BOILING POINT: 300°C @ 760.00mmHg

VAPOUR PRESSURE: Not available

SPECIFIC GRAVITY/DENSITY: .8060g/cm³

SOLUBILITY: Not available

STABILITY AND REACTIVITY

STABILITY: Stable. Materials to avoid: the performance of this product may be affected by strong odors.

HAZARDOUS DECOMPOSITION: If the product is combusted, it will produce carbon dioxide and carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.



TOXICOLOGICAL DATA

The following applies to the devices enclosing the *Musca domestica* attractant when used in the prescribed manner.

SKIN CONTACT:	Product might cause skin irritation upon prolonged contact.
SKIN ABSORPTION:	Product absorbed through the skin upon prolonged contact.
EYE CONTACT:	Product causes eye irritation if directly rubbed in eye.
INHALATION:	Product difficult to inhale.
INGESTION:	Product could cause choking if swallowed.
SIGNS & SYMPTOMS OF EXPOSURE:	To the best of our knowledge, the chemical, physical and toxicological properties of the active ingredients have not been thoroughly investigated.
TOXICITY DATA:	Inhalation, rat: LC50 = >5 gm/m ³ ; Oral, rat: LD50 = >5000 mg/kg; Skin, rabbit: LD50 = >2000 mg/kg.

ECOLOGICAL INFORMATION

GENERAL: Prevent contamination of soil, ground and surface water.

DISPOSAL CONSIDERATION

Waste Disposal Method: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

TRANSPORTATION INFORMATION

ROAD (U.S. -DOT): Not regulated.
AIR (IATA): Not regulated.
SEA (IMDG): Not regulated.

REGULATORY INFORMATION

EUROPEAN INFORMATION: Based on toxilogical studies in the published literature, there is no risk and safety phrases to assign for this product.

UNITED STATES INFORMATION: The active ingredient are listed in the following inventories:
TSCA, NSDL, ECL, EINECS (252-397-7)
Listed as carcinogen by NTP, IARC or OSHA? No



OTHER INFORMATION:

HMIS® HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HMIS® RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS. ALTHOUGH HMIS® RATINGS ARE NOT REQUIRED ON MSDSs UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM.

HMIS® RATINGS ARE TO BE USED ONLY IN CONJUNCTION WITH A FULLY IMPLEMENTED HMIS® PROGRAM BY WORKERS WHO HAVE RECEIVED APPROPRIATE HMIS® TRAINING. HMIS® IS A REGISTERED TRADE AND SERVICE MARK OF THE NPCA.

ACRONYMS: NTP (NATIONAL TOXICOLOGY PROGRAM); IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER); OSHA (OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION); DOT (U.S. DEPT. OF TRANSPORTATION)

DISCLAIMER:

FOR USE MIX WITH WATER INSIDE TRAPS

WARRANTY:

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