

(Page 1)

MATERIAL SAFETY DATA SHEET

IDENTITY (as used on Label and List):

Pink Bollworm Pheromone Technical

Section I

Manufacture's Name: Shin-Etsu Chemical Co., Ltd.	Emergency Telephone Number: 03(3246)5280
Address: 2-6-1 Ohtemachi, Chiyoda-ku, Tokyo, Japan	Telephone Number for Information: 03(3246)5280
	Date Prepared: October 12, 2005
	Signature of Preparer (Optional):

Section II - Hazardous Ingredient/Identity Information

Hazardous Component(Specific Chemical Identity, Common Name(s))

No hazardous compound

Pink Bollworm Pheromone Technical

94% up

CAS No. 52207-99-5 as Z7,Z11-hexadecadienyl acetate

CAS No. 53042-79-8 as Z7,E11-hexadecadienyl acetate

Section III - Physical Characteristics

Boiling Point: 170-175°C / 3mmHg	Specific Gravity: 0.885 (20°C)
Vapor Pressure (mmHg): 9.0 x 10 ⁻¹ mmHg (20°C)	Melting Point: No data
Vapor Density (Air=1): Not applicable	Evaporation Rate: No data

Solubility in Water
Less than 0.12g/l

Appearance and Odor:

Colorless or light yellow transparent liquid and mild waxy and sweet odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): 167°C (Pensky-Martens)	Flammable Limits: No data	LEL	UEL
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Extinguish Media:

water spray, dry chemical or carbon dioxide

Special Fire Fighting Procedures:

Fire fighters should use self-contained breathing equipment and protective clothing.

Usual Fire and Explosion Hazards:

Under confined conditions, a vapor of this material in the air may cause a rapid combustion if ignited by exposure to heat sparks or open flame.

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Pink Bollworm Pheromone Technical (Page 2)

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid: Aerial and sunlight exposure
	Stable	X	

Incompatibility (Materials to Avoid):
Acids, peroxides and other oxidizing materials

Hazardous Decomposition or Byproducts:
None

Hazardous Polymerization	May Occur		Conditions to Avoid: Aerial and sunlight exposure
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
Health Hazards (Acute and Chronic):			
Acute oral LD ₅₀	>5,000mg/kg		
Acute dermal LD ₅₀	>2,000mg/kg		
Acute inhalation LC ₅₀	17.8mg/l		
Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
	Not found	Not found	Not found

Signs and Symptoms of Exposure:
No data found

Medical Conditions (Generally Aggravated by Exposure):
No data found

Emergency and First Aid Procedure:
In case of skin contact, wash off with flowing water.
In case of eye contact, immediately flush eyes with copious quantities of water. Get immediate medical attention.

Section VII - Precautions for Safe Handling or Spilled

Steps to Be Taken in Case Material is Released or Spilled:
Wear approved rubber gloves and safety goggles.
Sweep up spillage. Wash spill site.

Waste Disposal Method:
Dispose of waste in accordance with all applicable Federal, State and local laws.

Precautions to Be Taken in Handling and Storing:
High temperature, aerial atmosphere and sunlight exposure should be avoided in handling and storing.

Other Precautions:
None

Section VIII - Control Measures

Respiratory Protection (Specify Type)
OSHA approved respirator

Ventilation	Local Exhaust: Recommended	Special: Not applicable
	Mechanical(General): Usual dust filter	Other: Not applicable

Protective Gloves: Rubber gloves are recommended Eye Protection: Safety goggles

Other Protective Clothing or Equipment:

An eye wash and safety shower should be nearby and ready for use.

Work/Hygienic Practices:

.....End of MSDS

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

STATEMENT OF PRACTICAL TREATMENT

Avoid contact with eyes. In case of eye contact, immediately flush with water. Get medical attention if irritation persists. Wash hands with soap and water after handling.

ENVIRONMENTAL HAZARDS

Do not discharge into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. For guidance, contact your regional office of the Environmental Protection Agency.

DIRECTIONS FOR USE

IT IS VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

Only for formulation into Pink Bollworm Insecticides. Traps and/or Lures for (1) Use on Cotton; (2) Uses for which the U.S.EPA has accepted required data and/or citations of data submitted by the formulator in support of registration; and (3) Uses for experimental purposes that are in compliance with the U.S.EPA requirements. Formulators are responsible for obtaining EPA registration for their formulated product.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in a cool place until used.

PESTICIDE DISPOSAL: Pesticide that cannot be used according to label instructions must be disposed of according to applicable federal, state and local procedures.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or by other procedures approved by state and local authorities

PINK BOLLWORM PHEROMONE TECHNICAL

ACTIVE INGREDIENTS:

(Z,Z)-7,11-Hexadecadien-1-yl acetate	49.8%
(Z,E)-7,11-Hexadecadien-1-yl acetate	47.2%
INERT INGREDIENTS:	3.0%
TOTAL	100.0%

EPA Reg. No.: 50675-2

EPA Est. No.: 47265-JP-01

KEEP OUT OF REACH OF CHILDREN

CAUTION

(See side panel for additional precautionary statements)

WARRANTY STATEMENT: Buyer assumes all risks of use, storage or handling of this material in strict accordance with directions given herewith.

Net Weight: Kg

MITSUBISHI INTERNATIONAL CORPORATION

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