BEDOUKIAN
Bedoukian Research, Inc.
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Web: http://www.bedoukian.com Email: customerservice@bedoukian.com

MATERIAL SAFETY DATA SHEET
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Product #: P6110-92 z,e-9,11-TETRADECADIEN-1-YL ACETATE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Bedoukian Research, Inc.
21 Finance Drive
Danbury, CT 06810-4192
UNITED STATES
Phone: 1-203-830-4000

Emergency Phone Numbers:
1-800-424-9300 Chemtrec (North America)
1-703-527-3887 Chemtrec (International)

Product Code: P6110-92
Product Name: z,e-9,11-TETRADECADIEN-1-YL ACETATE
Last Revision: Jun 09, 2006

SECTION 2. HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATIONS
HEALTH = 1 FLAMMABILITY = 1 REACTIVITY = 0 PROTECTION = B

LABEL PRECAUTIONARY STATEMENTS
U.S. HAZARD LABELING
May be irritating to skin and eyes.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 50767-79-8
MF: C16H28O2
EC NO: 256-752-7
SYNONYM(S)
9,11-Tetradecadien-1-ol, acetate, (9Z,11E)-
(Z,E)-9,11-Tetradecadien-1-yl acetate
Z9E11-14Ac
cis,trans-9,11-Tetradecadienyl acetate
cis-9,trans-11-Tetradecadienyl acetate
z,e-9,11-Tetradecadienyl Acetate

SECTION 4. FIRST-AID MEASURES

INHALATION EXPOSURE: Remove to fresh air. Give oxygen and call a physician.
EYE CONTACT: Flush with water for 15 min. Seek medical help if necessary.
SKIN CONTACT: Wash area well with water. Seek medical help if necessary.
INGESTION: Administer water and call a physician or poison control center immediately. Do not induce vomiting.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
CO2, FOAM, DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES
Use standard fire fighting procedures.
UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
Standard absorbents can be used.
WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 7. HANDLING AND STORAGE

HANDLING
Observe all warnings and precautions listed for the product. Use in accordance with good manufacturing and industrial hygiene practices. Use product in a properly ventilated work area. Do not eat, drink or smoke while handling product.
STORAGE
Store tightly sealed under inert gas in a cool, well-ventilated area.
FIRE PROTECTION
Keep away from heat, sparks, and open flame.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Mechanical (general)
RESPIRATORY: Usually not required.
SKIN: Rubber gloves
EYES: Splash-proof safety glasses.
OTHER PROTECTIVE EQUIPMENT: Safety shower, eye wash

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE: colorless liquid
ODOR DESCRIPTION: very mild, oily.
BOILING POINT: Not Established
VAPOR PRESSURE : Not found
VAPOR DENSITY (Air = 1): >1
SPECIFIC GRAVITY @ 25C (water = 1): 0.8890:0.8960
SOLUBILITY IN WATER: Insoluble in water.
FLASH POINT (CC): 230 F 110 C

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES
CONDITIONS TO AVOID: Presents no special reactivity hazard.
MATERIALS TO AVOID: Strong oxidizing agents
HAZARDOUS COMBUSTION PRODUCTS
CO, CO2, water

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
Most likely route of entry is through the skin.
Full strength may be irritating to skin and eyes.
TOXICITY DATA
This material is a Straight Chain Lepidopteran Pheromone, a class of pheromones with no expected risks to human health or non-target organisms.
THRESHOLD LIMIT VALUE (TLV): Not established
OSHA PERMISSABLE EXPOSURE LIMIT (PEL): Not established

LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 12. ECOLOGICAL INFORMATION

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

SECTION 13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

	Class	Pack Group	Sub. Risk	UN No.
Road(U.S.-DOT):	not regulated.			
Air (IATA):	not regulated.			
Sea (IMDG):	not regulated.			

SECTION 15. REGULATORY INFORMATION

EUROPEAN INFORMATION
Based on toxicological studies in the published literature, there are no risk and safety phrases to assign for this product.
REVIEWS, STANDARDS, AND REGULATIONS
This chemical is listed on the following inventories:
TSCA NDSL EINECS(256-752-7) ENCS
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 16. OTHER INFORMATION

DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED REGARDING ITS CORRECTNESS.

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MATERIAL SAFETY DATA SHEET
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Product #: P6051-93 z,e-9,12-TETRADECADIEN-1-OL

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Bedoukian Research, Inc.
21 Finance Drive
Danbury, CT 06810-4192
UNITED STATES
Phone: 1-203-830-4000

Emergency Phone Numbers:
1-800-424-9300 Chemtrec (North America)
1-703-527-3887 Chemtrec (International)

Product Code: P6051-93
Product Name: z,e-9,12-TETRADECADIEN-1-OL
Last Revision: Feb 08, 2007

SECTION 2. HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATIONS
HEALTH = 1 FLAMMABILITY = 1 REACTIVITY = 0 PROTECTION = B

LABEL PRECAUTIONARY STATEMENTS
U.S. HAZARD LABELING
May be irritating to skin and eyes.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 51937-00-9
MF: C14H26O
EC NO: 257-527-6
SYNONYM(S)
9,12-Tetradecadien-1-ol, (9Z,12E)-
Z,E-9,12-Tetradecadienol
Z9E12-14OH

SECTION 4. FIRST-AID MEASURES

INHALATION EXPOSURE: Remove to fresh air. Give oxygen and call a physician.
EYE CONTACT: Flush with water for 15 min. Seek medical help if necessary.
SKIN CONTACT: Wash area well with water. Seek medical help if necessary.
INGESTION: Administer water and call a physician or poison control center immediately. Do not induce vomiting.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
CO2, FOAM, DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES
Use standard fire fighting procedures.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.

SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
Standard absorbents can be used.
WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 7. HANDLING AND STORAGE

HANDLING
Observe all warnings and precautions listed for the product. Use in accordance with good manufacturing and industrial hygiene practices. Use product in a properly ventilated work area. Do not eat, drink or smoke while handling product.
STORAGE
Container: NOT ALUMINUM
Store tightly sealed under inert gas in a cool, well-ventilated area.
FIRE PROTECTION
Keep away from heat, sparks, and open flame.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Mechanical (general)
RESPIRATORY: Usually not required
SKIN: Rubber gloves
EYES: Splash-proof safety glasses
OTHER PROTECTIVE EQUIPMENT: Safety shower, eye wash

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE: colorless liquid
ODOR DESCRIPTION: not established
BOILING POINT: Not Established
VAPOR PRESSURE : Not found
VAPOR DENSITY (Air = 1): > 1
SPECIFIC GRAVITY @ 25C (water = 1): 0.8600:0.8660
SOLUBILITY IN WATER: Insoluble in water; soluble in alcohol.
FLASH POINT (CC): 230 F 110 C

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES
CONDITIONS TO AVOID: Presents no special reactivity hazard.
MATERIALS TO AVOID: Strong oxidizing agents
HAZARDOUS COMBUSTION PRODUCTS
CO, CO2, water

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
Most likely route of entry is through the skin.
Full strength may be irritating to skin and eyes.
TOXICITY DATA
This material is a Straight Chain Lepidopteran Pheromone, a class of pheromones with no expected risks to human health or non-target organisms.
THRESHOLD LIMIT VALUE (TLV): Not established
OSHA PERMISSABLE EXPOSURE LIMIT (PEL): Not established
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 12. ECOLOGICAL INFORMATION

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

SECTION 13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

	Class	Pack Group	Sub. Risk	UN No.
Road(U.S.-DOT):	not regulated.			
Air (IATA):	not regulated.			
Sea (IMDG):	not regulated.			

SECTION 15. REGULATORY INFORMATION

EUROPEAN INFORMATION
Based on toxicological studies in the published literature, there are no risk and safety phrases to assign for this product.
REVIEWS, STANDARDS, AND REGULATIONS
This chemical is listed on the following inventories:
TSCA NDSL ECL EINECS(257-527-6) ENCS
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 16. OTHER INFORMATION

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