Asiatic Rice Borer
3 Components Plus Stabilizer
a) Z,11-16:AL
b) Z,13-18:AL
c) Z,9-16:AL
d) BHT

BEDOUKIAN
Bedoukian Research, Inc.
21 Finance Drive | Danbury, CT 06810 | Phone: 203-830-4000 | FAX: 203-830-4010
Web: http://www.bedoukian.com Email: customerservice@bedoukian.com

MATERIAL SAFETY DATA SHEET
Printed: Jul 03, 2008 14:19:05

Product #: P4100-90 z-9-HEXADECENAL

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: P4100-90
Product Name: z-9-HEXADECENAL
Last Revision: Mar 14, 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 #: 56219-04-6
MF: C16H30O
EC NO: 260-064-2
SYNONYM(S)
9-Hexadecenal, (9Z)-
(Z)-Hexadec-9-enal
Z-9-Hexadecenal
Z9-16Ald
cis-9-Hexadecen-1-al

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.
Wet used absorbent with water; store in air-tight container.
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 to yellow liquid
ODOR DESCRIPTION: not established
BOILING POINT: Not Established
VAPOR PRESSURE : Not found
VAPOR DENSITY (Air = 1): > 1
SPECIFIC GRAVITY @ 25C (water = 1): 0.8440:0.8520
SOLUBILITY IN WATER: Insoluble in water; soluble in aclohol.
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, CO_2, 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(260-064-2) ENCS
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 16. OTHER INFORMATION

DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY

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MATERIAL SAFETY DATA SHEET

Printed: Aug 03, 2007 15:07:50

Product #: P4040-93 BEDOUKIAN Z-11-HEXADECENAL TECHNICAL PHEROMONE

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: P4040-93
Product Name: BEDOUKIAN Z-11-HEXADECENAL TECHNICAL PHEROMONE
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
Keep cold.
Keep under inert gas.
May be irritating to skin and eyes.
Trimerizes!

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 53939-28-9
MF: C16H30O
EC NO: 258-876-7

ADDITIONAL INFORMATION
EPA Registration No. 52991-14

SYNONYM(S)
11-Hexadecenal, (11Z)-
APM pheromone
Artichoke plume moth pheromone
BRI Z-11-HEXADECENAL TECHNICAL PHEROMONE
DBM pheromone component
Diamondback moth pheromone component
Virelure
Z11-16Ald
cis-11-Hexadecen-1-al

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.
Wet used absorbent with water; store in air-tight container.
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 below 0 deg. C
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 to pale yellow
ODOR DESCRIPTION: powerful, waxy
BOILING POINT: 130C @ < 0.1 mm Hg
VAPOR PRESSURE : Not found
VAPOR DENSITY (Air = 1): > 1
SPECIFIC GRAVITY @ 25C (water = 1): 0.8420:0.8500
SOLUBILITY IN WATER: Insoluble in water; soluble in aclohol.
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
LD50 Dermal (rabbit) > 2 g/kg.
LD50 Oral (rat) > 5 g/kg.
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(258-876-7) ENCS
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 16. OTHER INFORMATION

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MATERIAL SAFETY DATA SHEET

Printed: Feb 18, 2008 14:53:53

Product #: P5000-94 z-13-OCTADECENAL

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: P5000-94
Product Name: z-13-OCTADECENAL
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
For Research & Development use only.
May be irritating to skin and eyes.
Trimerizes!

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 58594-45-9
MF: C18H34O
EC NO: 261-349-4

ADDITIONAL INFORMATION
R&D use only by technically qualified individual.

SYNONYM(S)
13-Octadecenal, (13Z)-
Z-13-Octadecenal
Z13-18Ald

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.
Wet used absorbent with water; store in air-tight container.
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 to yellow liquid
ODOR DESCRIPTION: powerful waxy,
BOILING POINT: 125C @ 0.1 mm Hg
VAPOR PRESSURE : Not found
VAPOR DENSITY (Air = 1): > 1
SPECIFIC GRAVITY @ 25C (water = 1): 0.8430:0.8520
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:
EINECS(261-349-4)
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 16. OTHER INFORMATION

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Updated June 11, 2007

BHT (Butylated Hydroxy Toluene)

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: BHT, butylated hydroxytoluene
INCI Name: BHT
Chemical Name: 2,6-di-tert-butyl-4-methylphenol
CAS Number: 128-37-0
EINECS Number: 204-881-4
Origin: synthetic

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point:	70°C (158°F)
Boiling Point:	265°C (509°F)
Density:	1.03-1.05 g/cm^3
Vapor Pressure:	1.3 Pa (at 20°C)
Molecular Weight:	380.2g/mol
Solubility in water:	insoluble (0.00006g/100ml)
Flash Point:	127°C (261°F)
Appearance & Odor:	white crystalline powder

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
Incompatibility: strong oxidizing agents and strong bases
Hazardous Decomposition: no information found
Hazardous Polymerisation: will not occur

4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Where exposure likely exceeds acceptable criteria, use NIOSH/OSHA-approved respiratory equipment.
Protective Clothing: Gloves recommended to prevent prolonged skin contact. Safety glasses, goggles, or face shield recommended for eye protection.
Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

7. HAZARDS IDENTIFICATION

General: May cause irritation to skin, eyes and respiratory system.
Inhalation: Inhalation of dust may be irritating to the respiratory system causing cough and sore throat.
Eye Contact: can cause eye irritation as redness and pain.
Skin Contact: can cause skin irritation. Repeated or prolonged exposure to skin may cause dermatitis.
Ingestion: Do not ingest; may cause gastrointestinal irritation as abdominal pain, liver failure, confusion and dizziness.

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 20 minutes. Seek medical attention if symptoms persist.
Skin: Wash exposed areas of the body with plenty of water & soap.
Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention.

9. FIRE FIGHTING MEASURES

Flammability: may be combustible at high temperatures
Extinguishing Media: water spray, foam, carbon dioxide for large fires; dry powder for small fires
Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

10. TOXICOLOGICAL INFORMATION

Acute LD50: no information found
Dermal and Eye Irritation: irriatant
Carcinogenicity: no information found
Mutagenicity, Teratogenicity: no information found

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

12. TRANSPORT INFORMATION

DOT Shipping Name: Refer to corresponding hazard class
ADR/RIC Code: Refer to corresponding hazard class
Sea Transport IMDG Code: Refer to corresponding hazard class
Air Transport IATA: Refer to corresponding hazard class

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