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SAFETY DATA SHEET

Issue Date: Dec 13, 1995 Revision Date: Sep 13, 2011

SDS #: BRI162 Printed: Feb 19, 2014

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Product #: 162 cis-3-OCTEN-1-OL

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Bedoukian Research, Inc. Emergency Phone Numbers:

21 Finance Drive 1-800-424-9300 Chemtrec (North

America)

Danbury, CT 06810-4133 1-703-527-3887 Chemtrec

(International) UNITED STATES

Phone: 1-203-830-4000 Email: customerservice@bedoukian.com Fax: 1-203-830-4010 Website: http://www.bedoukian.com

Product Code: 162

Product Name: cis-3-OCTEN-1-OL Uses: flavors and fragrances

SECTION 2. HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATIONS

HEALTH = 1 FLAMMABILITY = 2 REACTIVITY = 0 PROTECTION = B

LABEL PRECAUTIONARY STATEMENTS
GHS CLASSIFICATION AND LABELLING

The following determinations per the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) have been made: GHS SIGNAL WORD

No signal word is required for this material.

GHS SYMBOLS

No symbol is required for this material.

GHS LABELING/HAZARD STATEMENTS

No hazard statements are required for this material.

GHS LABELING/PRECAUTIONARY STATEMENTS

No precautionary statements are required for this material.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 20125-84-2

FEMA #: 3467 COE #: 10296

MF: C8H16O EC NO: 243-533-6 Minimum Purity: 96.0%

Additives: synthetic alpha tocopherol @ 0.10%

SYNONYM(S)

3-Octen-1-ol, (3Z)-Z-3-Octen-1-ol cis-3-Octenol

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

Packaging: Glass, Plastic or Phenolic Lined Steel 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: Local exhaust preferred. General ventilation required. RESPIRATORY: Usually not required. Avoid inhaling concentrated vapors.

SKIN: Avoid skin contact. Use chemical resistant gloves.

EYES: Splash-proof safety glasses or goggles.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: colorless liquid

ODOR DESCRIPTION: powerful fresh melon with an earthy note

BOILING POINT: 206.75 C (EPI 4.0)

VAPOR PRESSURE: 0.0303 mmHg (20C, EPI 4.0)

VAPOR DENSITY (Air = 1): > 1

SPECIFIC GRAVITY @ 25C (water = 1): 0.8400:0.8500

SOLUBILITY IN WATER: Insoluble in water; soluble in alcohol.

FLASH POINT (CC): 180 F 82 C

LOGP : 2.590

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.

IRRITATION DATA

Skin Rabbit: 100% mat'l applied at 0.5 ml per site. Reactions graded per Draize. Primary irritation index=4.71, therefore test mat'l is not a primary irritant. Result for similar mat'l z-5-Octenol.

TOXICITY DATA

LD50 Dermal (rabbit) > 5 g/kg. Result for similar mat'l cis-3-Hexenol. LD50 Oral (rat) > 5 g/kg. Result for similar mat'l z-5-Octenol.

OTHER DATA

Dermal sensitization (Guinea Pig): Mat'l is not a sensitizer. Buehler method. Induction w/ 100% mat'l. Challenge at 1%, 3%, 10%; vehicle EtOH; no effects noted. Result for similar mat'l z-5-Octenol.

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.

ECOTOXIC EFFECTS

Acute tox. LC50 (freshwater fathead minnow): 381 mg/l calculated LC50.

Result for similar mat'l cis-3-Hexenol.

Biodegradation test (OECD 301B): 10mg/l readily and ultimately

biodegradable. 89.4% biodegradation after 28 days. Result for similar mat'l cis-3-Hexenol.

Biodegradation test (OECD 301F): 100 mg/l readily biodegradable. 77% biodegradation after 28 days. 72% at end of 10-day window. Result for similar mat'l cis-3-Hexenol.

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

REVIEWS, STANDARDS, AND REGULATIONS
This chemical is listed on the following inventories:
TSCA AICS CHINA DSL ECL EINECS(243-533-6) PICCS
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
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WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED REGARDING ITS CORRECTNESS.

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EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A
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PROVIDED TO BRI'S SATISFACTION TO BE DEFECTIVE OR NONCONFORMING SHALL BE THE REPLACEMENT OF SUCH PRODUCTS WITHOUT CHARGE OR REFUND OF THE PURCHASE PRICE UPON THE RETURN OF SUCH PRODUCTS IN ACCORDANCE WITH BRI'S INSTRUCTIONS. THIS REMEDY, IN THE MANNER PROVIDED HEREIN, SHALL CONSTITUTE FULFILLMENT OF ALL LIABILITIES OF BRI, WHETHER BASED ON CONTRACT, TORT OR OTHERWISE WITH RESPECT TO, OR ARISING OUT OF THE PRODUCTS. BRI SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, CONTINGENT OR SPECIAL DAMAGES.

SAFETY DATA SHEET

Issue Date: Dec 13, 1995 Revision Date: May 11, 2012

SDS #: BRI461 Printed: May 16, 2013

17:48:32

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Bedoukian Research, Inc. Emergency Phone Numbers:

21 Finance Drive 1-800-424-9300 Chemtrec (North

America)

Danbury, CT 06810-4133 1-703-527-3887 Chemtrec

(International)
UNITED STATES

Phone: 1-203-830-4000 Email: customerservice@bedoukian.com Fax: 1-203-830-4010 Website: http://www.bedoukian.com

Product Code: 461

Product Name: delta-DECALACTONE Uses: flavors and fragrances

SECTION 2. HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATIONS

HEALTH = 1 FLAMMABILITY = 1 REACTIVITY = 0 PROTECTION = B

LABEL PRECAUTIONARY STATEMENTS

GHS CLASSIFICATION AND LABELLING

The following determinations per the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) have been made:

GHS SIGNAL WORD

No signal word is required for this material.

GHS SYMBOLS

No symbol is required for this material.

GHS LABELING/HAZARD STATEMENTS

No hazard statements are required for this material.

GHS LABELING/PRECAUTIONARY STATEMENTS

No precautionary statements are required for this material.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 705-86-2

FEMA #: 2361 COE #: 621

MF: C10H18O2 EC NO: 211-889-1

Minimum Purity: 98.0% (sum of isomers)

Additives: None

SYNONYM(S)

2H-Pyran-2-one, tetrahydro-6-pentyl-

5-Decanolide

5-Hydroxydecanoic acid, delta-lactone

5-Pentyl-5-pentanolide

6-Pentyltetrahydro-2H-pyran-2-one

Decan-5-olide

Dihydrojasmin lactone

delta-Amyl-delta-valerolactone delta-Amylvalerolactone delta-Pentyl-delta-valerolactone delta-Pentylvalerolactone

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

Packaging: Glass, Plastic, Aluminum or Phenolic Lined Steel 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: Local exhaust preferred. General ventilation required. RESPIRATORY: Usually not required. Avoid inhaling concentrated vapors. SKIN: Avoid skin contact. Use chemical resistant gloves.

EYES: Splash-proof safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: Safety shower, eye wash

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: colorless liquid

ODOR DESCRIPTION: creamy, coconut, peach-like aroma.

BOILING POINT: 283.16 C (EPI 4.0)

VAPOR PRESSURE : 0.00294 mmHg (20C, EPI 4.0)

VAPOR DENSITY (Air = 1): > 1

SPECIFIC GRAVITY @ 25C (water = 1): 0.9635:0.9710

SOLUBILITY IN WATER: Insoluble in water; soluble in alcohol.

FLASH POINT (CC): 230 F 110 C

LOGP : 2.570

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.

RTECS NUMBERS

RTECS: (2H-Pyran-2-one, tetrahydro-6-pentyl-) UQ1355000

IRRITATION DATA

1% in petrolatum produced no irritation or sensitization in humans.

Eye Rabbit: irritant effects, 1.25% test mat'l, vehicle alcohol SDA 39C; mild vessel injection involving only conjunctivae. Eyes normal on day 3

of

observation.

TOXICITY DATA

LD50 Dermal (rabbit) > 5 g/kg.

LD50 Oral (rat) > 5 g/kg.

S. typhimurium strains TA97a, TA98, TA100, TA102, TA1535 with and without

S9: No effects, dosed up to 5 mg/plate. Vehicle dimethyl sulfoxide.

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.

ECOTOXIC EFFECTS

Acute toxicity EC50 Freshwater Daphnia magna: 48 hours 50.7 mg/l 95% confidence interval of 44.7-57.5 mg/l.

Biodegradation test (OECD 301B): 10mg/l readily and ultimately biodegradable. 97.7% biodegradation after 28 days.

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

REVIEWS, STANDARDS, AND REGULATIONS

This chemical is listed on the following inventories:

TSCA AICS CHINA DSL ECL EINECS(211-889-1) ENCS PICCS

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
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BRI'S SOLE AND EXCLUSIVE LIABILITY WITH RESPECT TO PRODUCTS

BRI'S SOLE AND EXCLUSIVE LIABILITY WITH RESPECT TO PRODUCTS PROVIDED TO BRI'S SATISFACTION TO BE DEFECTIVE OR NONCONFORMING SHALL BE THE REPLACEMENT OF SUCH PRODUCTS WITHOUT CHARGE OR REFUND OF THE PURCHASE PRICE UPON THE RETURN OF SUCH PRODUCTS IN ACCORDANCE WITH BRI'S INSTRUCTIONS. THIS REMEDY, IN THE MANNER PROVIDED HEREIN, SHALL CONSTITUTE FULFILLMENT OF ALL LIABILITIES OF BRI, WHETHER BASED ON CONTRACT, TORT OR OTHERWISE WITH RESPECT TO, OR ARISING OUT OF THE PRODUCTS. BRI SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, CONTINGENT OR SPECIAL DAMAGES.

SAFETY DATA SHEET

Issue Date: Dec 13, 1995 Revision Date: May 11, 2012

SDS #: BRI460 Printed: May 16, 2013

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Product #: 460 delta-NONALACTONE FCC

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Bedoukian Research, Inc. Emergency Phone Numbers:

21 Finance Drive 1-800-424-9300 Chemtrec (North

America)

Danbury, CT 06810-4133 1-703-527-3887 Chemtrec

(International)
UNITED STATES

Phone: 1-203-830-4000 Email: customerservice@bedoukian.com Fax: 1-203-830-4010 Website: http://www.bedoukian.com

Product Code: 460

Product Name: delta-NONALACTONE FCC

Uses: flavors and fragrances

SECTION 2. HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATIONS

HEALTH = 1 FLAMMABILITY = 1 REACTIVITY = 0 PROTECTION = B

LABEL PRECAUTIONARY STATEMENTS

GHS CLASSIFICATION AND LABELLING

The following determinations per the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) have been made:

GHS SIGNAL WORD

No signal word is required for this material.

GHS SYMBOLS

No symbol is required for this material.

GHS LABELING/HAZARD STATEMENTS

No hazard statements are required for this material.

GHS LABELING/PRECAUTIONARY STATEMENTS

No precautionary statements are required for this material.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 3301-94-8

FEMA #: 3356 COE #: 2194

MF: C9H16O2 EC NO: 221-974-5 Minimum Purity: 98.0%

Additives: None

SYNONYM(S)

2H-Pyran-2-one, 6-butyltetrahydro-5-Hydroxynonanoic acid, delta-lactone

5-Nonanolide

5-n-Butyl-d-valerolactone

6-Butyltetrahydro-2H-pyran-2-one delta-Butyl-delta-valerolactone

delta-Butylvalerolactone

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

Packaging: Glass, Plastic, Aluminum or Phenolic Lined Steel 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: Local exhaust preferred. General ventilation required. RESPIRATORY: Usually not required. Avoid inhaling concentrated vapors.

SKIN: Avoid skin contact. Use chemical resistant gloves.

EYES: Splash-proof safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: Safety shower, eye wash

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: colorless to pale yellow liquid ODOR DESCRIPTION: coconut, creamy character.

BOILING POINT: 267.02 C (EPI 4.0)

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VAPOR PRESSURE: 0.0067 mmHg (20C, EPI 4.0)
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VAPOR DENSITY (Air = 1): > 1

SPECIFIC GRAVITY @ 25C (water = 1): 0.9800:0.9860

SOLUBILITY IN WATER: Insoluble in water; soluble in alcohol.

FLASH POINT (CC): 230 F 110 C

LOGP : 2.080

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.

IRRITATION DATA

10% in petrolatum produced no irritation or sensitization in humans. $TOXICITY\ DATA$

LD50 Dermal (rabbit) > 5 g/kg. For similar delta-Decalactone.

LD50 Dermal (rabbit) > 5 g/kg. For similar delta-Octalactone.

LD50 Oral (rat) > 5 g/kg. For similar delta-Decalactone.

LD50 Oral (rat) > 5 g/kg. For similar delta-Octalactone.

S. typhimurium strains TA97a, TA98, TA100, TA102, TA1535 with and without S9: No effects, dosed up to 5 mg/plate. Vehicle dimethyl sulfoxide. For similar delta-Decalactone.

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.

ECOTOXIC EFFECTS

Acute toxicity EC50 Freshwater Daphnia magna: 48 hours 50.7 mg/l 95% confidence interval of 44.7-57.5 mg/l. For similar delta-Decalactone. Biodegradation test (OECD 301B): 10 mg/l readily and ultimately biodegradable. 97.7% biodegradation after 28 days. For similar material delta-Decalactone.

SECTION 13. DISPOSAL CONSIDERATION

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

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

REVIEWS, STANDARDS, AND REGULATIONS

This chemical is listed on the following inventories:

TSCA AICS CHINA DSL ECL EINECS(221-974-5) ENCS PICCS

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

SECTION 16. OTHER INFORMATION

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