

Product #: 808 FARNESENE, MIXTURE OF ISOMERS

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Bedoukian Research, Inc.

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Product Code: 808

Product Name: FARNESENE, MIXTURE OF ISOMERS

Uses: flavors and fragrances

Emergency Phone Numbers:

1-800-424-9300 Chemtrec (North America)

1-703-527-3887 Chemtrec (International)

SECTION 2. HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATIONS

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

LABEL PRECAUTIONARY STATEMENTS

U.S. HAZARD LABELING

****DO NOT HEAT FOR ANY REASON****

Keep cold.

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

Danger

GHS SYMBOLS

GHS08 Health hazard

GHS LABELING/HAZARD STATEMENTS

H304 May be fatal if swallowed and enters airways

H316 Causes mild skin irritation

GHS LABELING/PRECAUTIONARY STATEMENTS

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: MIXTURE

FEMA #: 3839

MF: C15H24

EC NO: 207-948-6

Additives: synthetic alpha tocopherol @ 0.10%

SYNONYM(S)

Contains 1,3,6,10-Dodecatetraene, 3,7,11-trimethyl-, (3E,6E) - [502-61-4]

2,6,10-Trimethyldodeca-2,6,9,11-tetraene

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 below 0 deg. C

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: pale-medium yellow liquid

ODOR DESCRIPTION: citrus, herbaceous, lavender background

BOILING POINT: 261.11 C (EPI 4.0)

VAPOR PRESSURE : 0.02 mmHg (20C, BRI estimated)

VAPOR DENSITY (Air = 1): > 1

SPECIFIC GRAVITY @ 25C (water = 1): 0.8440:0.8790

SOLUBILITY IN WATER: Insoluble

FLASH POINT (CC): 230 F 110 C

LOGP : 7.100

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

Eye Rabbit: no effects; 100% test material. Some redness of conjunctivae at 1 and 24 hrs post-dosing, normal at 48 hrs. Iris and cornea not affected by material. Result for beta-Farnesene.

LLNA: test material in 3:1 DEP:Ethanol did not result in a stimulation index of 3 or greater. Considered to not have sensitizing activity. Tested at 7.5%, 15%, and 30%. Result for beta-Farnesene.

Skin Guinea Pig: 24% highest non-irritating concentration. Vehicle ethanol. Tested at 1%, 6%, 12%, and 24%. Result for beta-Farnesene.

Skin Human: 7.5% test material, irritation noted, no sensitization.

Vehicle alcohol SDA-39C. (Human RIPT) Result for beta-Farnesene.

TOXICITY DATA

LD₅₀ Oral (rat) > 5 ml/kg (approx. 4.2 g/kg). Result for beta-Farnesene.

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

EC₅₀ Daphnia magna: 110 ug/l at 48 hours. 48 hour EC₀: 11.7 ug/l. 24 hour

EC₅₀: >189 ug/l. Result for alpha-Farnesene.

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.
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Road(U.S.-DOT):	not regulated.			
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Air (IATA):	not regulated.			
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Sea (IMDG):	not regulated.			
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SECTION 15. REGULATORY INFORMATION

REVIEWS, STANDARDS, AND REGULATIONS

This chemical is listed on the following inventories:

TSCA AICS CHINA DSL ECL EINECS(207-948-6) PICCS

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

SECTION 16. OTHER INFORMATION

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