

MSDS – Caryophyllene

Synergy Semiochemicals Corporation



IDENTITY (As Used on Label and List)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Caryophyllene

Section I

Manufacturer's Name
Synergy Semiochemicals Corporation

Emergency Telephone Number
CANUTEC @ 1-(613)-996-6666

Address
7061 Merritt Avenue
Burnaby, British Columbia,
Canada
V5J4R7

Telephone Number for Information
1-(604)-454-1122

Date Prepared
2016-12-21

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Caryophyllene CAS 87-44-5	N/A	N/A	N/A	N/A

Section III - Physical/Chemical Characteristics

Boiling Point	255C	Specific Gravity (H₂O = 1)	0.91
Vapour Pressure (mm Hg)	N/A	Melting Point	N/A
Vapour Density (AIR = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	<1

Solubility in Water
Insoluble

Appearance and Odour
Clear mobile liquid packaged in release device.



Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
96 C, closed cup	N/A	N/A	N/A

Extinguishing Media

Carbon dioxide, dry chemical, foam. Do not use water.

Special Fire Fighting Procedures

Use water spray to cool fire exposed containers. Firefighters & other exposed to product of combustion should wear self-contained breathing apparatus & full firefighting protective clothing. Dike area to prevent runoff.

Unusual Fire and Explosion Hazards

When heated, material and vapours may be a fire hazard.

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable	X Exposure to oxidizing agents or open flame

Incompatibility (*Materials to Avoid*)

Oxidizing agents, chlorinating agents, strong acids, strong heating or flame

Hazardous Decomposition or Byproducts

Oxides of carbon. Incomplete combustion generates aldehydes and acids

Hazardous	May Occur	Conditions to Avoid
Polymerization	Will Not Occur X	N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	YES	YES	YES

Health Hazards (*Acute and Chronic*)

Mucous membrane, skin, eye and respiratory tract irritant. May be an allergic sensitizer in some individuals. Release device is non-hazardous if not punctured.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

This material is not known to be carcinogenic

Signs and Symptoms of Exposure

Exposure to small amounts is likely to be asymptomatic. Larger amounts may cause irritation of skin, eyes, or mucous membranes. Ingestion may lead to nausea and vomiting. Inhalation of large amounts of vapour may produce dizziness, headache, chest pain, and in severe cases pulmonary oedema, cyanosis and intoxication leading to unconsciousness.

If concerned about exposure levels, remove victim to fresh air and contact your local poison control centre.



Section VI - Health Hazard Data cont'd.

Medical Conditions Generally Aggravated by Exposure

Dermatitis, pneumonia, upper respiratory tract irritation.

Emergency and First Aid Procedures

Remove affected to fresh air. For skin contact, wash affected area with warm soapy water. For eye contact, wash eyes thoroughly with cold water. Treat symptomatically and supportively.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Provide adequate ventilation to remove fumes from spill area. Personnel should use protection against contact with liquids & against breathing large amounts of vapours. Pick up with absorbent material & place in waste disposal container. Use vermiculite or other suitable absorbent. Flush area with water.

Waste Disposal Method

Incineration or sanitary disposal in accordance with local regulations

Precautions to Be taken in Handling and Storing

Flammable liquid. Store in well ventilated, cool dry place away from sources of heat & ignition. No smoking in areas of storage or use.

Other Precautions

N/A

Section VIII - Control Measures

Respiratory Protection (*Specify Type*)

For high exposures, use NIOSH approved air line or self contained respirators. Eye protection may be needed to prevent eye irritation from high levels of vapours.

Ventilation	Local Exhaust	Special
	YES	N/A
	Mechanical (<i>General</i>)	Other
	YES	N/A

Protective Gloves

Organic resistant, e.g. Butyl rubber

Eye Protection

Organic resistant

Other Protective Clothing or Equipment

Provide eye wash station, safety shower, and suitable cleanup materials in case of spill.

Work/Hygienic Practices

Avoid contact with skin and eyes. Do not eat, drink, or smoke when handling material. Release devices are non-hazardous if not punctured.