

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Name : Lambda 9.7 CS
Synonyms : 100208957, EPA Reg. No.: 89459-51, Equil Lambda 9.7 CS Insecticide

1.2. Recommended use and restrictions on use

Recommended use : Insecticide.
Restrictions on use : Avoid contact with eyes and clothing. Keep out of reach of children.

1.3. Supplier

Central Garden & Pet
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173 - United States
www.zoecon.com

1.4. Emergency telephone number

Emergency number : 1-800-347-8272
1-800-424-9300 - CHEMTREC
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (inhalation) Category 4

Harmful if inhaled

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



GHS07

Signal word (GHS US) : Warning
Hazard statements (GHS US) : Harmful if inhaled
Precautionary statements (GHS US) : Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center or doctor if you feel unwell.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : This product is extremely toxic to fish. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Lambda 9.7 CS

Safety Data Sheet

Name	Product identifier	%
Lambda-cyhalothrin	(CAS-No.) 91465-08-6	9.7
Acetophenone	(CAS-No.) 98-86-2	4
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
- First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : Harmful if inhaled.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use water fog, alcohol resistant foam, carbon dioxide, or dry chemical.
- Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Do not allow fire fighting water to escape into waterways or sewers.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Positive pressure self-contained breathing apparatus (SCBA).
- Emergency procedures : Do not scatter spilled material with high pressure water streams. Do NOT wash away into sewer. Avoid release to the environment. Evacuate unnecessary personnel. Ventilate area. Wear appropriate personal protective equipment, avoid direct contact.

6.2. Environmental precautions

Do NOT wash away into sewer. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Wear appropriate personal protective equipment, avoid direct contact.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not use this product in or on electrical equipment due to the possibility of shock hazard.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Lambda 9.7 CS

Safety Data Sheet

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep only in original container. Keep container tightly closed. Avoid excess heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acetophenone (98-86-2)		
ACGIH	ACGIH OEL TWA [ppm]	10 ppm
ACGIH	Remark (ACGIH)	URT irr; CNS impair; pregnancy loss
AIHA	WEEL TWA [ppm]	10 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear long sleeved shirt, long pants, socks and shoes

Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Off-white liquid
Color	: Off-white
Odor	: Pungent
Odor threshold	: No data available
pH	: 4.17
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.01
Solubility	: Miscible

Lambda 9.7 CS

Safety Data Sheet

Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid extreme heat. Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. May decompose upon heating to produce toxic vapors which may include oxides of carbon and nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Lambda 9.7 CS	
LD50 oral	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 2.23 mg/l/4h

GHS-US Properties	Classification
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Harmful if inhaled.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

Potential health effects

Inhalation

Acute : Harmful if inhaled.

Skin

Lambda 9.7 CS

Safety Data Sheet

Acute : Lambda-Cyhalothrin: contact with exposed skin may result in temporary itching, tingling, burning or numbness, called paresthesia. The symptoms normally disappear within 24 hours.

Eye

Acute : Under normal conditions of use, no health effects are expected.

Ingestion

Acute : Under normal conditions of use, no health effects are expected.

Mutagenicity : Lambda-Cyhalothrin does not demonstrate mutagenic effects.

Carcinogenicity : Lambda-Cyhalothrin did not cause cancer in laboratory animal studies.

Reproductive Effects : Lambda-Cyhalothrin did not produce developmental or reproductive effects in laboratory animal studies.

SECTION 12: Ecological information

12.1. Toxicity

Lambda-cyhalothrin (91465-08-6)	
LC50 Acute fish 1	0.00024 mg/l (Exposure time: 96hr Oncorhynchus mykiss)
LC50 Acute fish 2	0.00021 mg/l (Exposure time: 96h - Blue gill)
LC50 Acute crustacea 1	0.0000049 mg/l (Exposure time: na - Mysid shrimp)
EC50 - Crustacea [1]	0.00036 mg/l (Exposure time: 48h Daphnia)
NOEC Chronic fish 1	0.000062 mg/l (Fathead minnow)
Acetophenone (98-86-2)	
LC50 Acute fish 1	162 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 Acute fish 2	155 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Acetophenone (98-86-2)	
Partition coefficient n-octanol/water (Log Pow)	1.7

12.4. Mobility in soil

No data available

12.5. Other adverse effects

Lambda 9.7 CS	
Ecological Fate	This product is extremely toxic to fish. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IMDG	UN3082	Packaging greater than 5 L: Environmentally Hazardous substance, Liquid, N.O.S. (Lambda-cyhalothrin)	9	III	Marine pollutant
IATA	UN3082	Packaging greater than 5 L: Environmentally Hazardous substance, Liquid, N.O.S. (Lambda-cyhalothrin)	9	III	Acute aquatic toxicity

SECTION 15: Regulatory information

15.1. US Federal regulations

Lambda 9.7 CS

Safety Data Sheet

Acetophenone (98-86-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	5000 lb
SARA Section 313 - Emission Reporting	1 %
EPA Labelling	
EPA Registration Number	89459-51
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.	
FIFRA Hazard statements	Caution
FIFRA Precautionary statements	KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals	Harmful if swallowed. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum or using tobacco, or using the toilet.
FIFRA First aid	If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor immediately for treatment advice. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth-to-mouth if possible. Call poison control center or doctor for further treatment advice.
FIFRA Environmental hazards	This product is extremely toxic to fish. To protect the environment, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. When making applications, care should be used to avoid household pets, particularly fish and reptile pets. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.
FIFRA Physical hazards	Do not use this product in or on electrical equipment due to the possibility of shock hazard

15.2. US State regulations

No additional information available

SECTION 16: Other information

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SDS US (GHS HazCom 2012) - CGP

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