

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Gentrol Complete EC3
 Synonyms : EPA Reg. No.: 89459-119,100542193, RF2296 LH EC

1.2. Recommended use and restrictions on use

Recommended use : Insecticide. Insect growth regulator.
 Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin or clothing. Do NOT take internally.

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 (oral) Category 4	Harmful if swallowed
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 2B	Causes eye irritation
Skin sensitization, Category 1	May cause an allergic skin reaction

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 swallowed
 Causes skin irritation
 May cause an allergic skin reaction
 Causes eye irritation

Precautionary statements (GHS US) :

Avoid breathing dust/fume/gas/mist/vapors/spray.
 Wash hands, forearms and face thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Call a poison center or doctor if you feel unwell.
 IF ON SKIN: Wash with plenty of water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Specific treatment (see supplemental first aid instruction on this label).
 Rinse mouth.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Wash contaminated clothing before reuse.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

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2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : This product is extremely toxic to aquatic organisms, including fish and invertebrates. 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

Name	Product identifier	%
Lambda-cyhalothrin	(CAS-No.) 91465-08-6	1.5
(S)-Hydroprene	(CAS-No.) 65733-18-8	1.5
* Trade secret	(CAS-No.) Trade Secret	8.6 – 10.2
Trade secret	(CAS-No.) Trade Secret	4.7 – 6.3
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

Comments : * The specific chemical identity has been withheld as a trade secret

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 skin contact : Causes skin irritation. May cause an allergic skin reaction. Skin paraesthesia which may be severe, usually transient with resolution within 24 hours.

Symptoms/effects after eye contact : Causes eye irritation.

Symptoms/effects after ingestion : Harmful if swallowed.

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 : Carbon dioxide. Dry chemical. Alcohol-resistant foam. Water spray.

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

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 : Avoid contact with skin and eyes. Do not touch or walk on the spilled product. Wear appropriate personal protective equipment, avoid direct contact.

6.1.2. For emergency responders

Protective equipment : Positive pressure self-contained breathing apparatus (SCBA).

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Emergency procedures : Ventilate area. Stop leak if safe to do so. Do not scatter spilled material with high pressure water streams. Do NOT wash away into sewer. Avoid release to the environment. Wear appropriate personal protective equipment, avoid direct contact. Evacuate unnecessary personnel. Stay upwind.

6.2. Environmental precautions

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. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container. Keep container closed when not in use. Do not store at temperatures below 50°F. Avoid extreme temperatures. Store in a well-ventilated place. Protect from sunlight.

Incompatible materials : Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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:

Wear chemical resistant gloves: Barrier laminate, Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Polyvinyl Chloride or Viton

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 : Golden yellow liquid
Color : Golden yellow
Odor : Moderate, neutral, varnish-like

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Odor threshold	: No data available
pH	: 3.9 (1% aqueous solution)
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 102°C (216°F) PMCC
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	: 1.0045 g/ml
Solubility	: Insoluble
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	: 175 cps @ 20°C; 64 cps @ 40°C
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 temperatures. Do not use this product in or on electrical equipment where a possibility of shock hazard exists. Protect from sunlight.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Gentrol Complete EC ₃	
LD50 oral rat	310.2 mg/kg
LC50 Inhalation - Rat	> 2.12 mg/l/4h

GHS-US Properties	Classification
Acute toxicity (oral)	Harmful if swallowed.
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified

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

Skin

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

Eye

Acute : Causes eye irritation.

Ingestion

Acute : Harmful if swallowed.

Mutagenicity

: Lambda-Cyhalothrin does not demonstrate mutagenic effects. (s)-Hydroprene is not a mutagen.

Carcinogenicity

: Lambda-Cyhalothrin did not cause cancer in laboratory animal studies. (s)-Hydroprene did not cause cancer in laboratory animal studies. No component in this product present at 0.1% or greater is listed by IARC, OSHA or NTP.

Reproductive Effects

: Lambda-Cyhalothrin did not produce developmental or reproductive effects in laboratory animal studies. (s)-Hydroprene 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: 96h - Rainbow trout)
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 magna)
NOEC Chronic fish 1	0.000062 mg/l (Fathead minnow)
(S)-Hydroprene (65733-18-8)	
NOEC (acute)	> 0.43 mg/l (Exposure time: 96h - Rainbow trout)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Other adverse effects

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Ecological Fate	This product is extremely toxic to aquatic organisms, including fish and invertebrates.

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

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		(s)-Hydroprene)			
IATA	UN3082	Packaging greater than 5 L: Environmentally Hazardous substance, Liquid, N.O.S. (Lambda-cyhalothrin, (s)-Hydroprene)	9	III	Acute aquatic toxicity

SECTION 15: Regulatory information

15.1. US Federal regulations

* Trade secret (Trade Secret)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	P - P - indicates a commenced Premanufacture Notice (PMN) substance.
EPA Labelling	
EPA Registration Number	89459-119
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	Warning
FIFRA Precautionary statements	KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals	May be fatal if swallowed. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes skin, or clothing. Wear protective eyewear, goggles or safety glasses. Wear long-sleeved shirt, long pants, shoes, socks and chemical-resistant gloves made of barrier laminate, butyl rubber >/= 14 mils, nitrile rubber >/= 14 mils, neoprene rubber >/= 14 mils, polyvinyl chloride >/= 14 mils or viton >/= 14 mils. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.
FIFRA First aid	If swallowed: Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. 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 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 eye. Call a poison control center or doctor for treatment advice.
FIFRA Environmental hazards	This product is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and run-off may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. This product may contaminate water through run-off. This product has a potential for run-off for several months or more after application. Poorly draining soils and soils with shallow water tables are prone to produce run-off that contains this product. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. See Directions for Use for additional precautions and requirements.
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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