

MATERIAL SAFETY DATA SHEET

Lambasafe 3/1 % EC

(Tetramethrin 1% + Lambda Cyhalothrin 3% EC)

SECTION 1. IDENTIFICATION OF THE SUBSTANCE

1.1 Identification of Substance

-Product Name : Tetramethrin + Lambda Cyhalothrin 4% EC

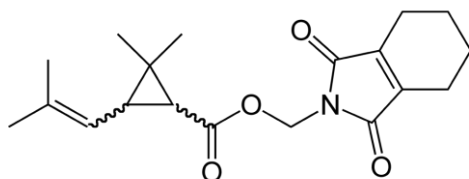
a) Tetramethrin

-CAS No : 1166-46-7

-Chemical Name: 1,3-dioxo-4,5,6,7-tetrahydroisindol-2-yl)methyl-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropane-1-carboxylate

-Formula: : $C_{19}H_{25}NO_4$

-Mol. wt: : 331.406 g/mol -Structure:



B) Lambda-cyhalothrin

-CAS No: 91465-08-6

-Chemical Name:

(S)- α -cyano-3-phenoxybenzyl

(Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2,-

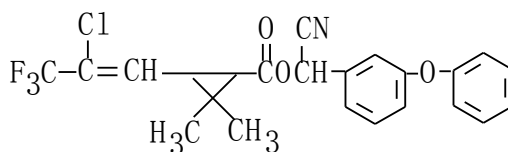
dimethylcyclopropanecarboxylate and (R)- α -cyano-3-phenoxybenzyl (Z)-(1S,3S)-

3-(2-chloro-3,3,3-trifluoropropenyl)-2,2,-dimethylcyclopropanecarboxylate.

-Formula: $C_{23}H_{19}ClF_3NO_3$

-Mol. wt: 449.9

-Structure



SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Conc.	Uses
Inert ingredient		
Tetramethrin	1%	To control of Flying insects
Lambda-Cyhalothrin	3%	
Inert ingredient		
Surfactant	10-12%	
Solvent	Up to 100%	
TOTAL	100%	

SECTION 3. HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE

Signs and symptoms of excessive exposure to this product may be headache, dizziness, in-coordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, pinpoint pupils, blurred vision, salivation, tearing, tightness in chest.

SECTION 4.FIRST AID MEASURES

Ingestion	If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by toughing back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention.
Eye	rinse with water for 15-20minutes.
Skin	Rinse skin immediately with plenty of water for 15-20 minutes.
Inhalation	If inhaled, move person to fresh air. If person is not breathing, give artificial respiration, preferably mouth-to-mouth if possible.
Note to physician	None known.

SECTION 5.FIRE FIGHTING MEASURES

Flammability: Not flammable under normal use
Extinguishing media: Foam, Carbon dioxide, Dry chemical
Thermal decomposition products: Non known
Special fire fighting methods: Use self contained breathing apparatus
Unusual fire or explosion hazards:
 Thermal decomposition products may include, but are not limited to, Carbon Monoxide and Carbon Dioxide. This product is combustible liquid.

SECTION 6.ACIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Spills should be cleaned up immediately.
 Large spill: dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimize runoff into waterways or drains.

SECTION 7.HANDLING AND STORAGE

Store the material in a well ventilated, secure area out of reach of children and domestic animals. Do not store food, drink in areas where they may become contaminated with this material. Keep container tightly closed. Keep away from heat, sparks and flames. Wash thoroughly after handling.

SECTION 8.EXPOSURE CONTROL/PERSONAL PROTECTION

Applicators and other handlers must wear:
 Coveralls over short-sleeved shirt and short pants.
 Chemical-resistant footwear plus socks.
 Chemical-resistant gloves, such as barrier laminate or butyl rubber.
 Protective eyewear.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid	
Color	yellow	
Persistent foam	Accepted	(CIPAC F p. 140 MT43)
Density	0.91 gm/cm ³	(CIPAC F p.11 MT 3)
pH value	5.5	(CIPAC F p.205 MT 75)
Corrosion properties	Non corrosion	
Flash point	65°C	

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and storage conditions.
 Condition to avoid: Extremely heat
 Materials to avoid: Strong oxidizers
 Polymerization: Polymerization will not occur.

Hazardous decomposition products:

Maybe release toxic gas.

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion: Acute Oral LD50 for rats >1000 mg/kg
 Dermal: Acute Dermal LD50 for rabbits >3000mg/kg
 Skin contact: Mild irritating to skin (rabbits)
 Eye contact: Mild irritating to eye (rabbits)
 Skin sensitization: No test
 Other: Non-mutagenic, non-teratogenic; no adverse effect on reproductive performance. Not neu-rotoxic.
 Toxicity class: Tetramethrin: WHO (A.I.) II; EPA II
 Lambdacyhalothrine: WHO (A.I.) II; EPA II

SECTION 12. ECOLOGICAL INFORMATION

This product is highly toxic to birds, fish and honeybee, Moderately toxic to pets and livestock, and low toxic to earthworm. Chlorpyrifos does not bio-accumulate in animal systems. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not contaminate water by cleaning of equipment or disposal of equipment wash water.

SECTION 13. DISPOSAL INSTRUCTION

Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning. If allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

Transport Classification: Road & Rail (ADG), Sea (IMDG)
 UN NO.: 3082
 Shipping Name: Pyrethroid Pesticide, liquid, toxic, Flammable, N.O.S.
 IMO class: 9
 Packing Group: III

SECTION 15. REGULATORY INFORMATION

Acute: Yes

Chronic: Yes

Fire: NO

Reactivity: No

Read and follow all label directions.

SECTION 16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements.