

LAMBDA-CYHALOTHRIN

0859
April 1997

CAS No: 91465-08-6
RTECS No: GZ1227780
UN No: 2588
EC No: 607-252-00-6

alpha-Cyano-3-phenoxybenzyl
3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate;
a 1:1 reaction mixture of the (Z)-(1R,3R), (S) ester and (Z)-(1S,3S), (R) ester
C₂₃H₁₉ClF₃NO₃
Molecular mass: 449.9

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		Alcohol-resistant foam, dry sand, powder, carbon dioxide.
EXPLOSION	Risk of fire and explosion if formulations contain flammable/explosive solvents.		
EXPOSURE		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	IN ALL CASES CONSULT A DOCTOR!
Inhalation	Burning sensation. Convulsions. Cough. Laboured breathing. Shortness of breath. Sore throat.	Local exhaust, or breathing protection.	Fresh air, rest.
Skin	Redness. Pain.	Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Abdominal pain. Cough.	Do not eat, drink, or smoke during work. Wash hands before eating.	Do NOT induce vomiting. Refer for medical attention.
SPILLAGE DISPOSAL		PACKAGING & LABELLING	
Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Sweep spilled substance into sealable containers. Carefully collect remainder, then remove to safe place. Personal protection: P3 filter respirator for toxic particles.		T+ Symbol N Symbol R: 21-25-26-50/53 S: (1/2-)28-36/37/39-38-45-60-61 UN Hazard Class: 6.1 UN Pack Group: III Do not transport with food and feedstuffs.	
EMERGENCY RESPONSE		SAFE STORAGE	
Transport Emergency Card: TEC (R)-61GT7-III		Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Cool. Keep in a well-ventilated room.	

IPCS

International
Programme on
Chemical Safety



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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA**Physical State; Appearance**

COLOURLESS TO BEIGE SOLID (TECHNICAL GRADE).

Chemical dangers

The substance decomposes on burning producing toxic fumes including nitrogen oxides hydrogen chloride and hydrogen fluoride.

Occupational exposure limits

TLV not established.

Routes of exposure

The substance can be absorbed into the body by inhalation of fine dust and mist and by ingestion.

Effects of short-term exposure

The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the peripheral nervous system, resulting in convulsions, ataxia.

PHYSICAL PROPERTIES

Decomposes below boiling point at 275/C

Melting point: 49.2/C

Relative density (water = 1): 1.3

Solubility in water: none

Vapour pressure, Pa at 20/C: <0.001

Octanol/water partition coefficient as log Pow: 7.0

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. The substance may be hazardous to the environment; special attention should be given to mammals and honey bees. The substance may cause long-term effects in the aquatic environment. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.

NOTES

Liquid formulation can be aspirated into the lungs resulting in chemical pneumonitis, showing tremors and convulsions.

If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s).

Carrier solvents used in commercial formulations may change physical and toxicological properties.

Do NOT take working clothes home.

The recommendations on this Card also apply to cyhalothrin.

Karate, Charge, Commodore, Excalibur, Hallmark, Icon, Matador, PP 321, Saber, and Sentinel are trade names.

Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.

ADDITIONAL INFORMATION**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information