

International Chemical Safety Cards

DELTAMETHRIN

ICSC: 0247


(S)-alpha-Cyano-3-phenoxybenzyl (1R)-cis-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate
 $C_{22}H_{19}Br_2NO_3$
 Molecular mass: 505.2

ICSC # 0247

CAS # 52918-63-5

 RTECS # [GZ1233000](#)

UN # 3349

EC # 607-319-00-X

March 13, 2001 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, AFFF, foam, carbon dioxide.
EXPLOSION			In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		PREVENT DISPERSION OF DUST!	
•INHALATION	Burning sensation. Cough. Dizziness. Headache. Nausea.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
•SKIN	Redness. Burning sensation. Numbness. Tingling. Itching.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES	Redness. Pain.	Face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Abdominal pain. Convulsions. Vomiting Unconsciousness. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: A/P2 filter respirator for organic vapour and harmful dust.	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs	Do not transport with food and feedstuffs. T symbol N symbol R: 23/25-50/53 S: 1/2-24-28-36/37/39-38-45-60-61 UN Hazard Class: 6.1 UN Packing Group: II

SEE IMPORTANT INFORMATION ON BACK

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Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

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I M P O R T A N T D A T A	PHYSICAL STATE; APPEARANCE: ODOURLESS COLOURLESS CRYSTALLINE POWDER.	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.		
	PHYSICAL DANGERS: CHEMICAL DANGERS: The substance decomposes on heating above 300°C, producing toxic fumes including hydrogen cyanide hydrogen bromide	INHALATION RISK: Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.		
	OCCUPATIONAL EXPOSURE LIMITS: TLV not established.	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 nervous system , resulting in facial sensation such as tingling, itching or burning. Exposure by ingestion may result in death.		
		EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:		
PHYSICAL PROPERTIES	Melting point: 98-101°C Relative density (water = 1): 0.5 g/cm ³ Solubility in water: none	Vapour pressure, Pa at 20°C: <10 Octanol/water partition coefficient as log Pow: 5.43		
ENVIRONMENTAL DATA	The substance is very toxic to aquatic organisms. Avoid release to the environment in circumstances different to normal use.			
NOTES				
Carrier solvents used in commercial formulations may change physical and toxicological properties. Decis, K-Othrin, Butox are trade names. Also consult publication Health and Safety Guide No. 30 Deltamethrin, and Environmental Health Criteria No. 97 Deltamethrin, of IPCS.				
Transport Emergency Card: TEC (R)-61GT7-II				
ADDITIONAL INFORMATION				
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(C) IPCS, CEC, 1994				


**IMPORTANT
LEGAL
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is

inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.