

CYPERMETHRIN**0246**

March 2001

CAS No: 52315-07-8
 RTECS No: GZ1250000
 UN No: 3352
 EC No: 607-433-00-X

(RS)-alpha-Cyano-3-phenoxybenzyl
 (1RS)-cis-trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
 Cyano(3-phenoxyphenyl)methyl
 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
 $C_{22}H_{19}Cl_2NO_3$
 Molecular mass: 416.3

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 GENERATION OF MISTS!	
Inhalation	Burning sensation. Cough. Dizziness. Headache. Nausea. Shortness of breath.	Ventilation, 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. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: A/P2 filter respirator for organic vapour and harmful dust.	<p>Xn Symbol N Symbol R: 22-37/38-43-50/53 S: (2-)36/37/39-60-61 UN Hazard Class: 6.1 UN Pack Group: II</p> <p>Do not transport with food and feedstuffs. Severe marine pollutant.</p>

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-61GT6-II	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Keep in a well-ventilated room.

IMPORTANT DATA

Physical State; Appearance

YELLOW VISCOUS LIQUID TO PASTE, WITH CHARACTERISTIC ODOUR.

Chemical dangers

The substance decomposes on heating above 220/C, producing toxic fumes including hydrogen cyanide, hydrogen chloride.

Occupational exposure limits

TLV not established.

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk

No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20/C.

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.

PHYSICAL PROPERTIES

Boiling point (decomposes): 220/C

Melting point: 60-80/C

Relative density (water = 1): 1.1

Solubility in water: none

Vapour pressure, Pa at 20/C: <10

Octanol/water partition coefficient as log Pow: 6.3

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.

Ripcord, Barricade, Cymbush, Agrothrin are trade names.

Also consult publication Health and Safety Guide No. 22 Cypermethrin, and Environmental Health Criteria No. 82 Cypermethrin, of IPCS.

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