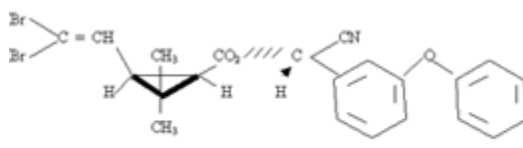


DELTAMETHRIN TECHNICAL

Active Ingredient	98% Min									
Chemical Family	Synthetic Pyrethroid									
Chemical Name	S(a) Cyano-3-Phenoxy benzyl (1R,3R) -3-(2,2-dibromovinyl) 2,2-dimethyl cyclopropane carboxylate									
Empirical Formula	$C_{22}H_{19}Br_2NO_3$									
Structural Formula	 <p>The image shows the chemical structure of Deltamethrin. It consists of a central cyclopropane ring. One carbon of the ring is bonded to two bromine atoms and a vinyl group (-CH=CH₂). The other two carbons of the ring are each bonded to a methyl group (-CH₃). The third carbon of the ring is bonded to a carboxylate group (-COO-), which is further linked to a 3-cyano-3-phenoxybenzyl group. The benzyl group consists of a methylene group (-CH₂-) attached to a benzene ring, which has a cyano group (-CN) and a phenoxy group (-O-C₆H₅) at the 3-position.</p>									
Molecular Weight	505.2									
Appearance	Off-White to White powder									
Melting Poin	100 – 102°C									
Odour	Characteristic									
Specific Rotation(a)	60 ± 1° (c=40 g / l in benzene)									
Bulk density	About 0.55 g / cm ² at 25°C									
Vapour pressure	< 1.33 x 10 ⁻⁵ Pa at 25°C									
Solubility	Very sparingly soluble in water, soluble in common Organic solvents. In dioxane 900g/l in cyclohexane 750 g/l, in dichloromethane 700 g/l in acetone 500 g/l in benzene 450 g/l, in Xylene 250 g/l, in ethanol 15 g/l and in Isopropano 6 g/l									
Stability	Stable in air and light, more stable in acidic media than in alkaline media.									
Toxicity	<table border="1"> <thead> <tr> <th>Route</th> <th>Species</th> <th>LD 50 in mg/kg Body weight</th> </tr> </thead> <tbody> <tr> <td>Oral</td> <td>Rat</td> <td>135 to 5000</td> </tr> <tr> <td>Dermal</td> <td>Rat, Rabbit</td> <td>>2000</td> </tr> </tbody> </table>	Route	Species	LD 50 in mg/kg Body weight	Oral	Rat	135 to 5000	Dermal	Rat, Rabbit	>2000
Route	Species	LD 50 in mg/kg Body weight								
Oral	Rat	135 to 5000								
Dermal	Rat, Rabbit	>2000								
Antidote	If ingested give gastric lavage with care to prevent Aspiration. Administer intravenous Phenobarbital, Diphenyl hydantoin or their combinations.									
Packing	25 kg / 50 kg, UN approved Galvanised iron Drums Alternate mode of packing also available									
U.N.No.	3349									
IMCO	6.1									
CAS No.	52918-63-5									

Manufactured by :

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