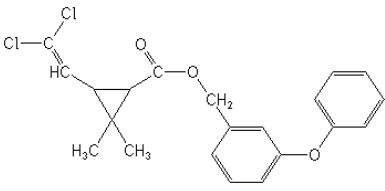
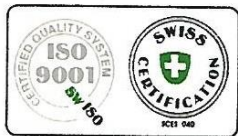


## PERMETHRIN TECHICAL

### Description of Technical

Permethrin is an insecticide active against a wide range of pests including Lepidoptera and Coleoptera in crops and various animal ectoparasites.

<b>Common Name</b>	:	Permethrin
<b>IUPAC Name</b>	:	3-phenoxybenzyl (1 <i>RS</i> ,3 <i>RS</i> ;1 <i>RS</i> ,3 <i>SR</i> )-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
<b>C.A. Name</b>	:	(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
<b>Chemical Family</b>	:	Pyrethroid
<b>Structural Formula</b>	:	
<b>Empirical formula</b>	:	C <sub>21</sub> H <sub>20</sub> Cl <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight</b>	:	391.3g/mol
<b>C.A.S. No.</b>	:	52645-53-1
<b>Physical State</b>	:	Colourless crystalline solid to brown viscous liquid depending upon purity
<b>Melting Point</b>	:	34.5 °C
<b>Density</b>	:	1.29 g ml <sup>-1</sup> )
<b>Odour</b>	:	Odorless
<b>Vapour Pressure</b>	:	cis-isomers 2.9 * 10 <sup>-3</sup> mPa ; trans -9.2* 10 <sup>-4</sup> mPa
<b>Flash Point</b>	:	100 °C
<b>Explosion Hazard</b>	:	Non-explosive
<b>Solubility in water</b>	:	0.2 mg l <sup>-1</sup>



**Stability** : Stable to heat (>2 years at 50 °C), more stable in acidic than alkaline, with optimum stability.

## PERMETHRIN TECHNICAL

### Sales Specification

**Permethrin content by mass** : 93% Min.  
**Moisture content** : 0.5% Max.  
**Packing** : M.S. Drum suitably lacquered from inside by epoxy resins. Maximum capacity of container should be 200 litres.  
**Transportation information** : UN No. 3352  
Class 6.1  
Pyrethroid pesticide, liquid, Toxic  
Marine Toxic  
Packing Group III

### Toxicological Profile

<b>LD50 acute oral</b>	:	Rat	430-4000mg/kg
<b>LD50 acute Percutaneous</b>	:	Rabbit	>2000 mg/kg
<b>LC50 inhalation (3hr)</b>	:	Rat	>685 mg/m <sup>3</sup>
<b>Skin irritation</b>	:	Rabbit	Mild Irritant
<b>Eye irritation</b>	:	Rabbit	Mild irritant
<b>Skin Sensitization</b>	:	Rabbit	Moderate-sensitizer