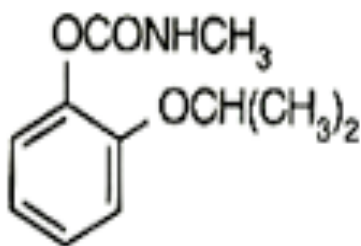


Technical Data Sheet

CHEMICAL IDENTIFICATION

Common Name:	PROPOXUR
Chemical Names:	2-isopropoxyphenyl methylcarbamate (IUPAC)
Chemical Family:	Carbamate.
CAS Number:	114-26-1
Empirical Formula:	C ₁₁ H ₁₅ NO ₃
Purity:	97%
Structural Formula:	



PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight:	209.2
Appearance:	Colourless crystalline solid material below 35°C.
Colour:	The technical material is a white to cream colour
Odour:	Mild phenolic odour.
Melting Point:	90°C.
Flash Point:	None
Solubility in water:	Practically insoluble in water 1.9 g/l @20°C
Solubility in Solvents:	Soluble in most organic solvents like acetone, alcohol, methanol, isopropanol, toluene, hexane
Density:	1.18 @ 20°C
Vapour Pressure:	1.3 mPa @ 20°C and 2.8mPa @ 25°C
Volatility:	Non Volatile
Absorption Spectrum:	Stable in ULV light n-Octanol/water
Partition Coefficient:	1.56 (P _{ow} log P)
Stability:	
In water:	Stable at pH 7. Hydrolyzed by strong alkali
In temperature:	Stable under normal temperatures
Explosiveness:	Non- explosive
Oxidising properties:	Shows NO oxidising properties
Corrosive properties:	Non-corrosive
pH:	Aqueous solution of 2% is having pH value of 4.8
Viscosity:	N/A

Technical Data Sheet

USES

Propoxur is a non- systemic insecticide with contact and stomach action. It as a broad-spectrum insecticide use in the control a wide range household pests including, cockroaches, fleas, flies, mosquitoes, ants, and millipedes and insects pests found in food storage areas, houses and animal houses. It gives rapid knockdown and has a long residual activity. Crop protection uses include the control of sucking and chewing insects (including aphids) in fruit, vegetables, ornamentals, vines, Soya beans, cotton, alfalfa, maize, sugar cane, rice, cocoa and migratory locust and grasshoppers. The product is phytotoxic to carnations, hydrangeas and chrysanthemums at higher dosage levels.

TOXICOLOGICAL INFORMATION

Acute toxicity

- LD50 Oral (rat): 50 mg/kg
- LD50 dermal (rabbit): >5000 mg/kg
- LC50 inhalation (rat): > 0.5mg/l (4 hr)

Irritancy

- Eye irritancy: Mild irritant (rabbit)
- Skin irritancy: None irritating (rabbit)
- Dermal sensitisation: Considered a weak sensitizer

ENVIRONMENTAL INFORMATION

LC50 fish (Rainbow trout):	3.7-13.6 mg/l (96h)
LC50 Daphnia Magna:	0.15 mg/l (Very toxic)
LC50 Bobwhite Quail:	2828 mg/kg (5 day)
LC50 Mallard Ducks:	>5000 mg/kg

TOXICITY TOWARDS USEFUL INSECTS:

Highly toxic to the honeybees

PACKAGING DETAILS

Propoxur is supplied in the packaging described below:
25 kg PE Lined MS Drum (UN approved)

LABELLING DETAILS

In accordance with the EEC norms relevant to the classification and the labelling of dangerous goods, Propoxur is labelled with the following symbols and phrases:

Symbol:	T, N
Risk phrase:	R ~ 22, 25, 50, 53
Safety advice:	S - 1,2,37,45,60,61

The statements made in this Data Sheet are, to the best of our knowledge, as accurate as possible, are given only for information and are without guarantee or responsibility on our part regarding the various laws or patents in connection with the use of the product. Further information is available on request.