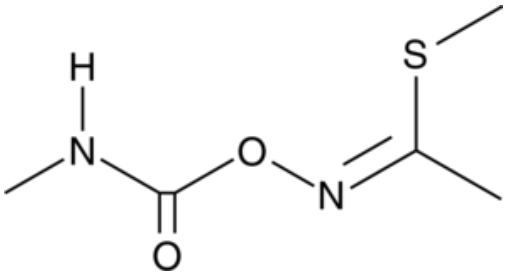
Product Data Sheet

Product Name: Methomyl
Cat. No.: GC47648

Chemical Properties

Cas. No.	16752-77-5		
SMILES	C/C(SC)=N/OC(NC)=O		
Formula	C5H10N2O2S	M.Wt	162.2
Solubility	Chloroform: Slightly Soluble,Methanol: Slightly Soluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Methomyl is a carbamate insecticide and molluscicide that inhibits acetylcholinesterase (AChE). [1,2] It induces mortality of tobacco budworm larvae when applied at a concentration of 0.56 kg/hectare and southern armyworm larvae at a concentration of 0.01 and 100 ppm.[3] Methomyl is toxic to the land snail *M. obstructa* (LD_{50} = 11.9 µg/snail).[2] It is also toxic to rats *via* oral but not dermal administration (LD_{50}s = 30 and >2,000 mg/kg). [1] Formulations containing methomyl have been used in the control of insects in agriculture.

1.Authority, E.F.S.Conclusion regarding the peer review of the pesticide risk assessment of the active substance methomylEFSA Scientific Report2221-99(2008) 2.Hussein, H.I., Al-Rajhy, D., El-Shahawi, F.I., et al.Molluscicidal activity of Pergularia tomentosa (L.), methomyl and methiocarb, against land

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snailsInt. J. Pest Mgt.45(3)211-213(2010) 3.Wolfenbarger, D.A., and Redfern, R.E.Toxicity of five carbamate insecticides to the two-spotted spider mite and larvae of the southern armyworm and the tobacco budwormJ. Econ. Entomol.61(2)580-581(1968)

Caution: Product has not been fully validated for medical applications. For research use only.
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