

## Product Data Sheet

Product Name: Methomyl-d3

Cat. No.: GC91186

### Chemical Properties

Cas. No. 1398109-07-3

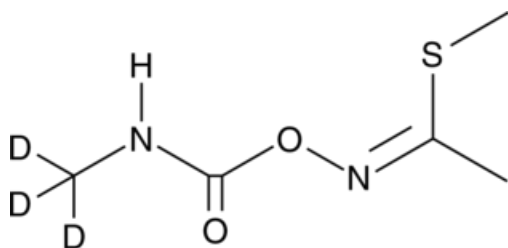
Formula  $C_5H_7D_3N_2O_2S$  M.Wt 165.2

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-d<sub>3</sub> is intended for use as an internal standard for the quantification of methomyl by GC- or LC-MS. Methomyl is a carbamate insecticide and molluscicide.<sup>1,2</sup> It induces mortality of tobacco budworm larvae when applied at a concentration of 0.56 kg/ha and southern armyworm larvae at concentrations of 0.01 and 100 ppm.<sup>3</sup> Methomyl is toxic to the land snail *M. obstructa* (LD<sub>50</sub> = 11.9 µg/snail).<sup>2</sup> It is also toxic to rats *via* oral but not dermal administration (LD<sub>50</sub>s = 30 and >2,000 mg/kg, respectively).<sup>1</sup> Formulations containing methomyl have been used in the control of insects in agriculture.

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

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