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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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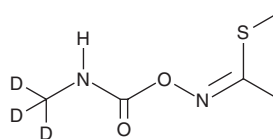
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PRODUCT INFORMATION



Methomyl-d₃ Item No. 39576

CAS Registry No.: 1398109-07-3
Formal Name: N-[[[(methyl-d₃-amino)carbonyl]oxy]-ethanimidothioic acid, methyl ester
MF: C₅H₇D₃N₂O₂S
FW: 165.2
Chemical Purity: ≥98% (Methomyl)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₃); ≤1% d₀
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Methomyl-d₃ is intended for use as an internal standard for the quantification of methomyl (Item No. 25610) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Methomyl-d₃ is supplied as a solid. A stock solution may be made by dissolving the methomyl-d₃ in the solvent of choice, which should be purged with an inert gas. Methomyl-d₃ is slightly soluble in chloroform and methanol.

Description

Methomyl is a carbamate insecticide and molluscicide.^{1,2} 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.³ Methomyl is toxic to the land snail *M. obstructa* (LD₅₀ = 11.9 µg/snail).² It is also toxic to rats via oral but not dermal administration (LD₅₀s = 30 and >2,000 mg/kg, respectively).¹ Formulations containing methomyl have been used in the control of insects in agriculture.

References

1. European Food Safety Authority. Conclusion regarding the peer review of the pesticide risk assessment of the active substance methomyl. *EFSA Scientific Report* (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 snails. *Int. 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 budworm. *J. Econ. Entomol.* **61(2)**, 580-581 (1968).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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