

Benoxacor

Chemical Properties

CAS No.:	98730-04-2
Formula:	C ₁₁ H ₁₁ Cl ₂ NO ₂
Molecular Weight:	260.11
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Benoxacor is an inert agricultural chemical. Benoxacor acts as an herbicide safener to protect crops from herbicide toxicity.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.845 mL	19.223 mL	38.445 mL
5 mM	0.769 mL	3.845 mL	7.689 mL
10 mM	0.384 mL	1.922 mL	3.845 mL
50 mM	0.077 mL	0.384 mL	0.769 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Bolyard K, Gresens SE, Ricko AN, Sivey JD, Salice CJ. Assessing the toxicity of the "inert" safener benoxacor toward *Chironomus riparius*: Effects of agrochemical mixtures. *Environ Toxicol Chem*. 2017 Oct;36(10):2660-2670. doi: 10.1002/etc.3814. Epub 2017 Jun 22. PubMed PMID: 28370367.
2. Bedos C, Alletto L, Durand B, Fanucci O, Brut A, Bourdat-Deschamps M, Giuliano S, Loubet B, Ceschia E, Benoit P. Observed volatilization fluxes of S-metolachlor and benoxacor applied on soil with and without crop residues. *Environ Sci Pollut Res Int*. 2017 Feb;24(4):3985-3996. doi: 10.1007/s11356-016-8124-9. Epub 2016 Dec 3. PubMed PMID: 27915427.
3. Joly P, Bonnemoy F, Charvy JC, Bohatier J, Mallet C. Toxicity assessment of the maize herbicides S-metolachlor, benoxacor, mesotrione and nicosulfuron, and their corresponding commercial formulations, alone and in mixtures, using the Microtox(®) test. *Chemosphere*. 2013 Nov;93(10):2444-50. doi: 10.1016/j.chemosphere.2013.08.074. Epub 2013 Sep 26. PubMed PMID: 24075530.
4. Del Buono D, Scarponi L, Espen L. Glutathione S-transferases in *Festuca arundinacea*: identification, characterization and inducibility by safener benoxacor. *Phytochemistry*. 2007 Nov;68(21):2614-24. Epub 2007 Jul 20. PubMed PMID: 17640691.

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