

Mesosulfuron-methyl

Chemical Properties

CAS No.:	208465-21-8
Formula:	C ₁₇ H ₂₁ N ₅ O ₉ S ₂
Molecular Weight:	503.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Mesosulfuron-methyl is a systemic herbicide. It is used for post-emergence control of grasses and other weeds in cereals.
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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	1.986 mL	9.930 mL	19.861 mL
5 mM	0.397 mL	1.986 mL	3.972 mL
10 mM	0.199 mL	0.993 mL	1.986 mL
50 mM	0.040 mL	0.199 mL	0.397 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. Baćmaga M, Borowik A, Kucharski J, Tomkiel M, Wyszowska J. Microbial and enzymatic activity of soil contaminated with a mixture of diflufenican + mesosulfuron-methyl + iodosulfuron-methyl-sodium. *Environ Sci Pollut Res Int*. 2015 Jan;22(1):643-56. doi: 10.1007/s11356-014-3395-5. Epub 2014 Aug 7. PubMed PMID: 25096492; PubMed Central PMCID: PMC4284394.
2. Kuk YI, Bugos NR. Cross-resistance profile of mesosulfuron-methyl-resistant Italian ryegrass in the southern United States. *Pest Manag Sci*. 2007 Apr;63(4):349-57. PubMed PMID: 17315272.
3. S C, B de C. RESISTANCE TO ALS-INHIBITING HERBICIDES IN WEED POPULATIONS FROM BELGIAN WHEAT FIELDS. *Commun Agric Appl Biol Sci*. 2015;80(2):251-9. PubMed PMID: 27145589.
4. Nuttens A, Chatellier S, Devin S, Guignard C, Lenouvel A, Gross EM. Does nitrate co-pollution affect biological responses of an aquatic plant to two common herbicides? *Aquat Toxicol*. 2016 Aug;177:355-64. doi: 10.1016/j.aquatox.2016.06.006. Epub 2016 Jun 14. PubMed PMID: 27371928.

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