AGROCHEMICAL ACTIVE INGREDIENT

Metsulfuron-methyl

Technical data sheet · Specifications revised 2026-10-27

Declared content and tolerances follow the FAO/WHO specification manual; properties are tested by CIPAC methods. The batch certificate of analysis reports the measured values of each delivery.

1 Identity

Item	Detail
CAS number	74223-64-6
Molecular formula	C14H15N5O6S (381.37 g/mol)
PubChem record	CID 52999
Mode of action group	HRAC 2
Chemical class	Sulfonylurea herbicide

2 Specifications and declared content

Specification	Content and tolerance
Metsulfuron-methyl 96% TC	≥ 96% (960 g/kg)
Metsulfuron-methyl 10% WP	10 ± 1%
Metsulfuron-methyl 60% WP	60 ± 2.5%
Metsulfuron-methyl 20% WG	20 ± 1.2%
Metsulfuron-methyl 60% WG	60 ± 2.5%

3 Quality specification by formulation type

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Technical material (TC)

Property	Requirement	Method
Active ingredient content	Not less than the declared minimum, with no upper limit	CIPAC
Identity	Confirmed by an identity test	CIPAC
Relevant impurities	Within the limits of the FAO specification for the active ingredient, where one exists	CIPAC
Water, insolubles and acidity	Stated where the specification of the active ingredient requires them	MT 30.6 · MT 191

Wettable powder (WP)

Property	Requirement	Method
Active ingredient content	Declared content within the FAO/WHO tolerance shown for each specification	CIPAC
Wet sieve test	≤ 2% retained on a 75 µm sieve	MT 185.1
Suspensibility	60 to 105% after 30 min in CIPAC water D	MT 184.1
Wettability	Completely wetted in 1 min without swirling	MT 53.3
Persistent foam	≤ 60 mL after 1 min	MT 47.3
Stability at elevated temperature	After 14 days at 54 ± 2 °C, active ingredient ≥ 95% of the initial content and physical limits still met	MT 46.4

Water dispersible granules (WG)

Property	Requirement	Method
Active ingredient content	Declared content within the FAO/WHO tolerance shown for each specification	CIPAC
Wettability	Completely wetted in 1 min without swirling	MT 53.3
Wet sieve test	≤ 2% retained on a 75 µm sieve	MT 185.1
Dispersibility	≥ 60% after 1 min of stirring	MT 174
Suspensibility	60 to 105% after 30 min in CIPAC water D	MT 184.1
Persistent foam	≤ 60 mL after 1 min	MT 47.3
Dustiness	≤ 30 mg collected dust	MT 171.1
Stability at elevated temperature	After 14 days at 54 ± 2 °C, active ingredient ≥ 95% of the initial content and physical limits still met	MT 46.4

Shelf life: two years from release under the storage conditions on the label, unless the label states otherwise.

FAO/WHO Manual on the development and use of FAO and WHO specifications for chemical pesticides, 3rd edition (2025)
https://doi.org/10.4060/cd7934en

4 Hazard, transport and customs

Item	Detail
EU harmonised classification	Aquatic Acute 1; Aquatic Chronic 1 (M = 1000 (acute))
Hazard statements	H400, H410
GHS pictograms	GHS09
Transport classification (pure substance)	UN 3077, class 9, packing group III, marine pollutant
HS code, technical material (EU customs)	2935.90
HS code, formulations	3808.93
FAO specification	FAO specification 441/TC (March 2020)

5 Packaging and supply terms

Item	Detail
Technical material	25 kg fibre drums or woven bags with liner; liquid technical material in 200 L drums
Solid formulations	100 g to 1 kg aluminium foil bags; 5, 10 and 25 kg bags, cartons or fibre drums
Minimum order	Formulations from 1,000 L or 1,000 kg per specification; technical material from 1,000 kg. Smaller quantities for samples and registration trials.
Lead time	Usually 25 to 40 days after order confirmation and label approval.
Shipping terms	FOB, CFR or CIF from a Chinese port; dangerous goods packed and documented to the IMDG Code.
Payment	T/T or irrevocable letter of credit at sight.

6 Notes

Approved uses differ by country; the label registered in the destination market applies.

The current safety data sheet of the formulation supplied ships with each batch.

Product page: https://huasheng.bio/products/cp-metsulfuron-methyl

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