AGROCHEMICAL ACTIVE INGREDIENT

Penoxsulam

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	219714-96-2
Molecular formula	C16H14F5N5O5S (483.4 g/mol)
PubChem record	CID 11784975
Mode of action group	HRAC 2
Chemical class	Triazolopyrimidine sulfonamide herbicide

2 Specifications and declared content

Specification	Content and tolerance
Penoxsulam 98% TC	≥ 98% (980 g/kg)
Penoxsulam 25 g/L OD	25 ± 3.75 g/L
Penoxsulam 5% OD	5 ± 0.5%
Penoxsulam 10% OD	10 ± 1%
Penoxsulam 22% SC	22 ± 1.32%

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

Oil dispersion (OD)

Property	Requirement	Method
Active ingredient content	Declared content within the FAO/WHO tolerance shown for each specification	CIPAC
Pourability	Residue ≤ 5%	MT 148.2
Dispersion stability	Within the limits of the product specification, in CIPAC waters A and D	MT 180
Wet sieve test	≤ 2% retained on a 75 µm sieve	MT 185.1
Persistent foam	≤ 60 mL after 1 min	MT 47.3
Stability at 0 °C	After 7 days at 0 ± 2 °C, still within the suspension and sieve limits	MT 39.3
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

Suspension concentrate (SC)

Property	Requirement	Method
Active ingredient content	Declared content within the FAO/WHO tolerance shown for each specification	CIPAC
Pourability	Residue ≤ 5%	MT 148.2
Spontaneity of dispersion	≥ 60% after 5 min in CIPAC water D	MT 160.1
Suspensibility	60 to 105% after 30 min in CIPAC water D	MT 184.1
Wet sieve test	≤ 2% retained on a 75 µm sieve	MT 185.1
Persistent foam	≤ 60 mL after 1 min	MT 47.3
Stability at 0 °C	After 7 days at 0 ± 2 °C, still within the suspension and sieve limits	MT 39.3
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

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

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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	No EU harmonised classification
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	No FAO specification published

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
Liquid formulations	100 mL to 1 L bottles; 5, 10 and 20 L jerrycans; 200 L drums and 1,000 L IBC for bulk supply
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-penoxsulam

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