A herbicide for annual grass weed control in a range of crops including wheat, triticale and rye.

Common Name: Clodinafop-Propargyl
IUPAC Name: prop-2-ynyl (R)-2-[4-(5-chloro-3-fluoro-2-pyridyloxy)phenoxy]propionate
C.A. Name: 2-propynyl (2R)-2-[4-[(5-chloro-3-fluoro-2-pyridinyl)oxy]phenoxy]propanoate
Chemical Family: Aryloxyphenoxypropionate

Structural Formula:

Empirical formula: C_{17}H_{13}ClFNO_{4}
Molecular Weight: 349.8 g/mol
C.A.S. No.: 105512-06-9
Physical State: Colourless to light beige colored crystals
Melting Point: 39.5 °C
Density: 1.35 g/ml
Odor: Aromatic
Vapour Pressure: 3.19 \times 10^{-03} \text{ mPa}
Flash Point: Not expected to self-ignite
Explosion Hazard: Not explosive
Solubility in water: 4 mg/l at 20 °C; Low
Stability: Relatively stable in acidic media at 50 °C, hydrolysis in alkaline media

CLODINAFOP-PROPARGYL

Sales Specifications

A.I. content by mass: 94% Min.
Moisture content: 0.4% Max.
Packing: HDPE liner sacks of capacity upto 100 kg, further packed into MS drums
Transportation information: UN No. 3082
Class 9
Environmentally hazardous Substance, liquid, N.O.S.
Packing Group III

Toxicological profile

LD50 acute oral: Rat: 1392 mg/kg
LD50 acute: Rat >2000 mg/kg
Percutaneous
LC50 inhalation (4hr): Rat 2.325 mg/l
Skin irritation: Rabbit Non- Irritant
Eye irritation: Rabbit Non- irritant
Skin Sensitization: Rabbit non-sensitizer