

Imazapyr PRODUCT DATA SHEET

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Product Name: Imazapyr

Product Number: 1012

CAS Number: 81334-34-1 Molecular Formula: $C_{13}H_{15}N_3O_3$

Molecular Weight: 261.28

Appearance: White powder

Source: Synthetic pH: 2.0-4.0

Melting Point: 128-130 °C

Storage Conditions: 2-8 °C

Description: Imazapyr is an insoluble herbicide which belongs to the imidazolinone family.

Mechanism of Action: Imazapyr inhibits acetolactate synthase (ALS) which plays an essential role in

the biosynthesis of branched chain amino acids.

Plant Biology Imazapyr is most effective post-emergence to kill broadleaf weeds and **Applications** grasses less than 10 cm in height (Armel, 2003). ALS inhibiting herbicid

grasses less than 10 cm in height (Armel, 2003). ALS inhibiting herbicides account for approximately 17.5% of the global herbicide usage in corn and

other agricultural goods (Green, 2008).

References: Armel G.R., Wilson H.P., Richardson R.J. and Hines T.E., 2003, Use of

Mixtures of Mesotrione, Imazethapyr, and Imazethapyr Plus Imazapyr

inImidazolinone-Resistant Corn (Zea mays). Weed Technology, Vol. 17, No. 4

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Green J.M., Hazel C.B., Forney D.R. and Pugh L.M., 2008, New multipleherbicide crop resistance and formulation technology to augment the utility of

glyphosate. Pest Manag Sci 64:332–339 (2008)

Menne H. and Kocher H., 2007, HRAC Classification of Herbicides and

Resistance Development. Modern crop protection compounds.

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