

Picloram PRODUCT DATA SHEET

issue date 01/06/2020

Product Name: Picloram

Product Number: P043

CAS Number: 1918-02-1

Molecular Formula: $C_6H_3Cl_3N_2O_2$

Molecular Weight: 241.46

Form: Powder

Appearance: White to off-white powder

Source: Synthetic

Water Content (Karl

Fischer):

≤1.0%

Melting Point: 218.5 °C Storage Conditions: <30°C

Description: Picloram belongs to the puridine class of the auxinic herbicides similar to the

hormone IAA (Indole-3-Acetic Acid). Picloram is sparingly soluble in water at

0.43 mg/mL and freely soluble in actone at 19.8 mg/mL.

Plant Biology

Applications

Auxin herbicides are involved in many developmental processes including differentiation of vascular tissue, formation of lateral and adventitious roots, apical dominance control, and tropic responses such as growing towards light. High concentrations of auxinic herbicides can however cause various growth abnormalities. In broadleaf dicots, Picloram can cause leaf epinasty and/or cupping, stem twisting, root and stem thickening and leading to chlorosis and

necrosis (Zheng, 2001).

References: Zheng H.G. and Hall J.C., 2001, Understanding auxinic herbicide resistance in

wild mustard: physiological, biochemical, and molecular genetic approaches.

Weed Science, 49:276-281. 2001

If you need any help, contact us: info@toku-e.com. Find more information on: www.toku-e.com.