



High River, March 23, 2017

Kinetin and Indole Butyric Acid exemptions from a tolerance for residues for RADIATE™

RADIATE™ contains two (2) different plant hormones Cytokinin as Kinetin and 3-Indole Butyric Acid (IBA), naturally present in plants, that synergistically stimulate early and improve root development. In Canada, Radiate is registered with Canadian Food Inspection Agency (CFIA) as a supplement (Registration Number 2015035A Fertilizers Act) and as such is exempted from tolerance.

Pursuant to the Fertilizers Act, fertilizers and supplements must be safe (with respect to human, plant and animal health and the environment) and properly labelled to avoid product misrepresentation and consumer fraud. The Fertilizer Safety Section of CFIA has reviewed Loveland's Radiate product and has determined that when used according to the labelled directions, it is unlikely to cause harm to humans, plants, animals, or the environment or result in the incorporation of hazardous compounds in the edible portions of crops.

Kinetin, as natural hormone, is used on a variety of food crops. Due to the low toxicity, US EPA has granted an exemption from the requirement of a tolerance for residues of cytokinins (specifically: aqueous extract of seaweed meal and kinetin) in or on all food commodities when used as plant regulators on plants, seeds, or cuttings and on all food commodities after harvest in accordance with good agricultural practices (§ 180.1157 Cytokinins; exemption from the requirement of a tolerance., [64 FR 31505, June 11, 1999]).

Auxins are a group of plant hormones with many vital roles in plant growth and developmental processes. Auxins are most widely used to in promoting rooting of a wide variety of plants. An exemption from the requirement of a tolerance is established for residues of auxins (specifically: indole-3- acetic acid and indole-3-butyric acid) in or on all food commodities when used as plant regulators on plants, seeds, or cuttings and on all food commodities after harvest in accordance with good agricultural practices by US EPA (§ 180.1158 Auxins; exemption from the requirement of a tolerance. [64 FR 31505, June 11, 1999]).

Despite that these hormones are exempt from tolerance in US and Canada, before using the product please verify always with your customer if any other special requirements apply.

Please do not hesitate to contact me by telephone at 403.336.4747, or e-mail to andreja.preradov@lovelandproducts.ca to discuss this topic further.

Yours truly,

A handwritten signature in black ink that reads "Andreja Preradov".

Andreja Preradov, PhD
Regulatory Manager