



INDIANA PESTICIDE REVIEW BOARD

Dave Scott, Secretary

West Lafayette, IN 47907-2063
(765) 494-1492
scottde@purdue.edu

SUBJECT: Highly Volatile Herbicide (HVH) Determination

NONRULE DETERMINATION DOCUMENT: Indiana Pesticide Review Board (IPRB)

DETERMINATION NUMBER: PESTICIDE-021-NDD

AUTHORIZED: Ronald A. Hellenthal, IPRB Chair

ORIGINALLY EFFECTIVE: March 2, 2021

RENEWED/REVISED: **January 17, 2024 ?**

***Disclaimer:** This Nonrule Determination Document (NDD) is being established by the Indiana Pesticide Review Board (IPRB), consistent with its authority under IC 15-16-4-17 and IC 15-16-4-48. It is intended solely to provide guidance and shall be used in conjunction with applicable rules and laws, specifically IC 15-16-4-57(7) and IC 15-16-4-59(5). This determination and associated interpretation, implementation, and permitting documents will be available for public inspection at <https://www.oisc.purdue.edu/pesticide/pdf/hvh.pdf>. <https://oisc.purdue.edu/pesticide/dicamba.html>*

PURPOSE:

The purpose of this NDD is to establish the IPRB's determination under IC 15-16-4-17 that a herbicide containing at least 6.5% dicamba active ingredient and classified as a Restricted Use Pesticide (RUP) under **357 IAC 1-17-1(3) IC 15-16-4-37** shall be a Highly Volatile Herbicide (HVH). The HVH determination is intended for herbicides capable of emitting vapors that may cause serious injury to desired plants by reason of movement of the vapors from the area of application of the herbicide to areas inhabited by the desired plants.

Dicamba herbicides, when applied in air temperatures approaching or exceeding 85 degrees Fahrenheit, have an increased likelihood of volatilizing and moving off the application target. In addition, dicamba herbicides, when applied during periods when nearby non-target desirable plants are at a growth stage that make them vulnerable to low level herbicide exposure, can result in abnormally large numbers of off-target movement instances. Public complaint investigation data collected in Indiana and other major soybean producing states during the period 2017 **through 2023** have confirmed the challenges associated with applying dicamba herbicides effectively and safely without causing a significant level of off-target adverse effects.

The IPRB intends, with this determination and with provisions established in IC 15-16-4-57(7) and IC 15-16-4-59(5), to significantly reduce the incidence of off-target movement of dicamba HVHs to protect sensitive non-target plants. Specifically, the IPRB intends to:

1. Prohibit the sale or distribution of dicamba HVHs to an end user in Indiana, except on written permission provided by the Office of Indiana State Chemist (OISC);
2. Prohibit the application of dicamba HVHs in Indiana, except on written permission provided by the OISC; and
3. Advise the OISC to provide written permission to apply dicamba HVHs only **during the periods up to and including June 20th and after August 31st of each calendar year. with the following temperature restriction: *No application shall be made if the air temperature of the field at the time of application is over 85 degrees Fahrenheit or if the National Weather Service's recorded high temperature for the nearest available location for time of application exceeds 85 degrees Fahrenheit.***

SCOPE:

This NDD and associated written permission from the OISC to sell and distribute dicamba HVHs shall be issued only to Registered Restricted Use Pesticide Dealers (IC 15-16-5-57). The written permission required from the OISC shall be issued through a Dicamba HVH General Permit for Sale or Distribution. All dealers registered with OISC shall be eligible for and covered by the general permit, without additional application or prenotification to OISC. Standard RUP sale, distribution, and recordkeeping requirements under 355 IAC 4-4-3 shall apply to HVHs.

This NDD and associated written permission from OISC to apply dicamba HVHs **prior to and including June 20th and after August 31st when the air temperature of the field at the time of application is at or below 85 degrees Fahrenheit** shall be issued only to licensed category 1 (agricultural pest management) commercial applicators (IC 15-16-5-7) and private applicators (IC 15-16-5-30). The written permission required from the OISC shall be issued through a Dicamba HVH General Permit for Application. All commercial and private applicators licensed with OISC shall be eligible for and covered by the general permit without additional application or prenotification to OISC. Standard RUP application and recordkeeping requirements under 355 IAC 4-4-1 and 1.5 shall apply to HVHs.

SUMMARY:

Implementing the dicamba HVH determination and the associated OISC dealer and applicator written permission procedures will result in an anticipated 50% **or greater** reduction in dicamba herbicide off-target movement incidents in Indiana. Reasonable management of dicamba herbicides through this determination will allow for the benefits of continued use of these valuable agricultural weed control tools, while providing a level of protection to off-target environments.

DEFINITIONS:

1. **“Dicamba Highly Volatile Herbicide (HVH)”** means any herbicide containing and least 6.5% dicamba active ingredient that is also classified as a Restricted Use Pesticide (RUP) by the Indiana Pesticide Review Board or the U.S. EPA. A current listing of HVHs is

available at https://www.oisc.purdue.edu/pesticide/pdf/dicamba_rups_022621.pdf
https://oisc.purdue.edu/pesticide/pdf/rup_listing.pdf

2. **“Dicamba Highly Volatile Herbicide General Permit for Application”** means the general written permission provided by the Office of Indiana State Chemist (OISC) for the application of a dicamba Highly Volatile Herbicide. The general permit shall cover all category category1 (agricultural pest management) applicators and all private applicators licensed by OISC for the application of a dicamba Highly Volatile Herbicide. Coverage under the general permit does not require individual application to OISC.
3. **“Dicamba Highly Volatile Herbicide General Permit for Sale or Distribution”** means the general written permission provided by the Office of Indiana State Chemist (OISC) for the sale or distribution of any RUP, including any dicamba Highly Volatile Herbicide. The general permit shall cover all restricted use pesticide (RUP) dealers registered by OISC. Coverage under the general permit does not require individual application to OISC.
4. **“Indiana Pesticide Review Board (IPRB)”** means the governor appointed board established under IC 15-16-4-42 to collect analyze, and interpret information on matters relating to the registration of pesticides, as authorized under IC 15-16-4-48; and to make a determination that a herbicide is a highly volatile herbicide, as defined in IC 15-16-4-17.
5. **“Office of Indiana State Chemist (OISC)”** means the pesticide state lead agency in Indiana required to issue written permission to sell or distribute highly volatile herbicides, under IC 15-16-4-57(7), and to use a highly volatile herbicide, under 15-16-4-59(5).
6. **“Nonrule Determination Document (NDD)”** means the term assigned by the IPRB to communicate the HVH determination and the associated compliance and implementation guidance. This determination by the IPRB does not require rule adoption under IC 4-22-2. Implementing the written permission process by OISC for sale, distribution, or use of a HVH does not require rule adoption under IC 4-22-2.

SIGNATURES:

Ronald A. Hellenthal, Chair
Indiana Pesticide Review Board

Date

Mark R. LeBlanc, State Chemist & Seed Commissioner
Office of Indiana State Chemist

Date

David E. Scott, Pesticide Administrator
Office of Indiana State Chemist

Date