

Important Changes To Herbicide Mode Of Action Labeling

Fact Sheet



HERBICIDE
RESISTANCE
ACTION
COMMITTEE

1 Why was the Herbicide mode of action classification changed?

The previous revision of the **Herbicide Resistance Action Committee** (HRAC) mode of action (MoA) classification was performed in 2010. This update was necessary to capture new active ingredients, ensure the MoA classification system reflects the current state of knowledge and creates a harmonized system more globally relevant.



2 What was changed?

Transition from alphabetical to numerical mode of action codes

Mode of Action
Example:

**Inhibition
of ALS**



Legacy
HRAC Code



New HRAC
Code

Additional examples of common MoAs

Mode of Action	Legacy HRAC	New HRAC
Inhibition of ACCase	A	1
Auxin mimics	O	4
Inhibition of EPSP synthase	G	9
Inhibition of glutamine synthetase	H	10
Inhibition of PPO	E	14
Inhibition of VLCFAs	K3	15
Inhibition of HPPD	F2	27

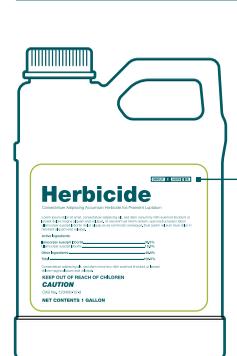
Other important changes

- Addition of **5 new or reclassified MoAs**
- Rationalization of **chemical family names**
- Addition of **15 new active ingredients**

New MoA Label Icon

GROUP 2 HERBICIDE

GROUP 2(B)* HERBICIDE



For guidance on how to label mixtures or any other questions, visit hracglobal.com

*Some may choose to include both legacy and new codes.

3 Who proposed the changes?

HRAC appointed a Working Group of herbicide technical experts from CropLife International member companies to prepare the update. Additionally, input was incorporated from regional HRAC organizations, CropLife Australia, as well as weed science societies such as the WSSA to ensure global consensus going forward.

CropLife INTERNATIONAL

4 Why change from letters to numbers?

HRAC believes that a numerical code system is more globally relevant and sustainable compared to an alphabetic code based on English/Latin letters. Another concern about the English alphabet is that there are only 26 letters. Today there are 26 recognized MoAs.

Over the next 10 years we anticipate up to 4 new modes of action to be commercialized, which will exceed the 26-letter maximum.

26 LETTERS
IN THE ENGLISH
ALPHABET

MODES OF
ACTION
RECOGNIZED **26**

4 NEW MODES
of ACTION
EXPECTED
OVER THE NEXT
TEN YEARS



Moving to numbers means there will be a common code shared globally.



5 When will the changes take place?

Countries currently using the legacy system will require a long transition period including education and communication before a change to numbers can be implemented. During this period, HRAC will continue to support legacy alphabetic codes. We hope to fully implement the numerical code by the end of 2023.



Questions?

For more information about the Herbicide mode of action changes, visit the HRAC website

➔ hracglobal.com