THE REGULATORY DATA BEHIND PESTICIDES

The pesticide authorization process is one of the most stringent product approval processes in the world

THE GENERATION AND USE OF SAFETY STUDIES

150 STUDIES

More than 150 safety studies – designed and validated by regulatory authorities – are conducted on each potential crop protection product before its approval for commercial use. The studies are designed to evaluate all circumstances of human and environmental exposure

Studies are carried out in compliance with with Good Laboratory Practice (GLP): an international framework for conducting safety tests that ensures quality and integrity of the data generated

The studies provide data on:

- Health and environmental safety
- Efficacy and quality of the product

Experts from regulatory authorities review the data and conduct risk assessments – looking at the product's toxicological profile and dose and exposure levels – to understand if the crop protection product can be used safely

The authorities estimate how much exposure is likely to happen based on how the product will be used. They also set strict rules around potential residues

100 TIMES LOWER

Generally a product is considered safe for use when the likely exposure is at least 100 times lower than the dose that causes no adverse effects in the studies

Only the products that meet all stringent regulatory requirements are authorized

THE COST AND LENGTH OF PROCESS

$71 MILLION

The crop protection industry spends an average $71m on toxicology and environmental safety tests for every product brought to the market. These tests help ensure that pesticides only receive regulatory approval if they are safe for human health and the environment

11 YEARS

Average time to take a product from discovery to commercial use

55%

The increase in cost of bringing crop protection products to market since the turn of the century

Much of the increase is due to the rise in volume and complexity of data required by regulatory bodies to ensure products are safe and effective

DATA GENERATION POST-AUTHORIZATION

The generation of regulatory data continues even after product authorizations have been granted

There are several requirements for post-authorization data:

- Periodic review of authorizations
- Requests for post commercial monitoring data or additional data on product safety
- Changes in regulatory systems

Our commitment to data transparency.
Find out more at croplife.org/data-transparency

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