

# SAFETY DATA BEHIND PESTICIDES

The pesticide authorization process is one of the most stringent in the world for any product.

More than **150** STUDIES

designed and validated by regulatory authorities are conducted on each potential pesticide before its approval. The studies evaluate all circumstances of human and environmental exposure.



Studies are carried out in compliance with with Good Laboratory Practice, an international framework that ensures data quality and integrity.

These studies provide data on:



Health and environmental safety



Efficacy and quality of a product

Experts from regulatory authorities review data and conduct risk assessments based on each pesticide's composition, dose and exposure to determine if it can be used safely.



Regulators estimate exposure based on how a product will be used. They also set strict rules around potential residues.



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 products that meet all stringent regulatory requirements are authorized.



The crop protection industry spends

**\$71 MILLION**

on safety tests for every pesticide brought to market. Regulatory approval is only given if tests prove products are safe for human health and the environment.

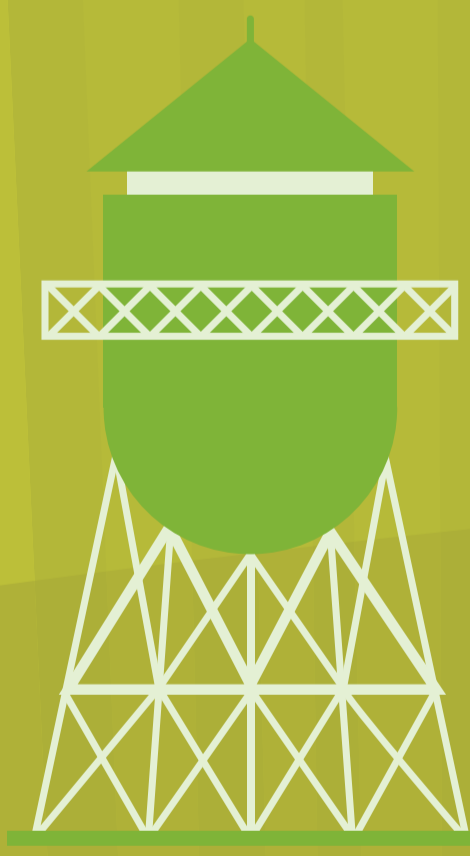
It takes

**11** YEARS

The cost of bringing new pesticides to market has increased

**55%**

since the turn of the century.



to develop a new product from discovery to commercialization.

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

After registration, each pesticide is subject to:



Periodic review of authorizations



Requests for post-commercial monitoring or additional data on product safety



Updates due to changes in regulatory systems



Regulatory data requirements continue after product authorizations have been granted.

Learn more at [CropLife.org/transparency](http://CropLife.org/transparency).

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