

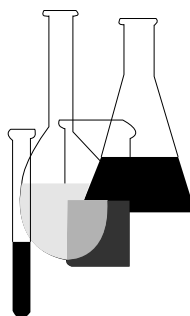


# Product Properties Test Guidelines

## OPPTS 830.6320

### Corrosion

### Characteristics



## INTRODUCTION

This guideline is one of a series of test guidelines that have been developed by the Office of Prevention, Pesticides and Toxic Substances, United States Environmental Protection Agency for use in the testing of pesticides and toxic substances, and the development of test data that must be submitted to the Agency for review under Federal regulations.

The Office of Prevention, Pesticides and Toxic Substances (OPPTS) has developed this guideline through a process of harmonization that blended the testing guidance and requirements that existed in the Office of Pollution Prevention and Toxics (OPPT) and appeared in Title 40, Chapter I, Subchapter R of the Code of Federal Regulations (CFR), the Office of Pesticide Programs (OPP) which appeared in publications of the National Technical Information Service (NTIS) and the guidelines published by the Organization for Economic Cooperation and Development (OECD).

The purpose of harmonizing these guidelines into a single set of OPPTS guidelines is to minimize variations among the testing procedures that must be performed to meet the data requirements of the U. S. Environmental Protection Agency under the Toxic Substances Control Act (15 U.S.C. 2601) and the Federal Insecticide, Fungicide and Rodenticide Act (7 U.S.C. 136, *et seq.*).

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**OPPTS 830.6320 Corrosion characteristics.**

(a) **Scope**—(1) **Applicability.** This guideline is intended to meet testing requirements of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) (7 U.S.C. 136, *et seq.*).

(2) **Background.** The source material used in developing this harmonized OPPTS test guideline is OPP guideline 63–20 Corrosion characteristics (Pesticide Assessment Guidelines, Subdivision D: Product Chemistry, EPA Report 540/9–82–018, October 1982) and 40 CFR 158.190 Physical and chemical characteristics.

(b) **Test method**—(1) **Objective.** Studies of the corrosion characteristics of a pesticide are needed to evaluate effects of the product formulation on the container. If the pesticide is highly corrosive, measures can be taken to ensure that lids, liners, seams or container sides will not be damaged and cause the contents to leak during storage, handling, or use. The objective of this guideline is to determine the effect of the pesticide product on its packaging material.

(2) **Method.** Report the data on corrosion characteristics by following the instructions in ASTM G–31. The registrant is urged to consult with the Agency prior to adopting an alternative method.

(3) **Combined testing.** A study of the corrosion characteristics of a product may be performed in combination with the storage stability test described in OPPTS 830.6317.

(c) **Reporting.** (1) Report the corrosion characteristics of products commercially packaged in metal, plastic, or paper containers in terms of visual observations (e.g., “perforations,” “darkening,” “leaking or rust at the seam,” etc.) and, if corrosion is visually evident, by galvanometric or other determinations of the container at the beginning and end of the storage period (typically 1 year).

(2) Any methods used to characterize the physical properties of a pesticide shall be described in the application for registration and copies of such methods must be submitted with the application.

(3) The applicant shall submit his own statistical evaluation of the precision and accuracy of these measurements (e.g., standard deviations or confidence intervals) when appropriate.