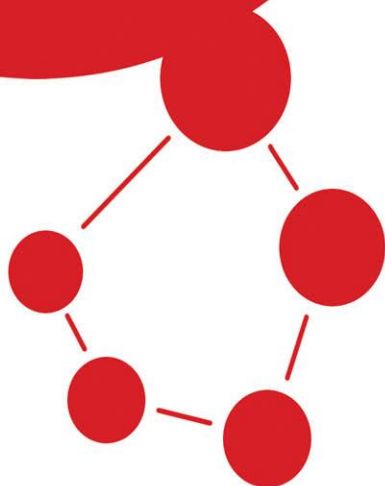


*FIRE AND
EXPLOSION HAZARDS
OF
PEROXY COMPOUNDS*



ASTM SPECIAL TECHNICAL PUBLICATION NO. 394

FIRE AND EXPLOSION HAZARDS OF PEROXY COMPOUNDS

Sponsored by Committee E-15
on Analysis and Testing of
Industrial Chemicals
AMERICAN SOCIETY FOR
TESTING AND MATERIALS

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Foreword

This publication is the first of a series of papers on the safe handling of peroxy compounds sponsored by ASTM Committee E-15 on the Analysis and Testing of Industrial Chemicals. It should be of considerable use to chemists and chemical engineers working with the ever growing list of organic and inorganic peroxy compounds in the laboratory and the chemical process industry. Future publications will cover the following topics: (1) storage and handling; (2) physical tests for evaluating stability; (3) formation, prevention of formation, and removal of peroxides from solvents; (4) hazards in purification; (5) chemical tests for qualitative detection; and (6) toxicity and physiological effects.

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THIS PUBLICATION is one of many issued by the American Society for Testing and Materials in connection with its work of promoting knowledge of the properties of materials and developing standard specifications and tests for materials. Much of the data result from the voluntary contributions of many of the country's leading technical authorities from industry, scientific agencies, and government.

Over the years the Society has published many technical symposiums, reports, and special books. These may consist of a series of technical papers, reports by the ASTM technical committees, or compilations of data developed in special Society groups with many organizations cooperating. A list of ASTM publications and information on the work of the Society will be furnished on request.

