

**Emulsifying
Agents**
An Industrial Guide

Ernest W. Flick

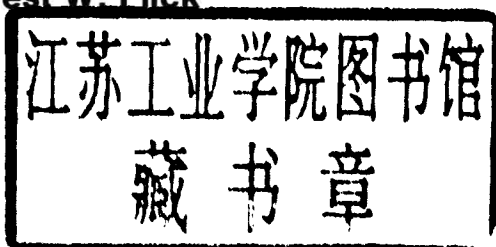
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EMULSIFYING AGENTS

An Industrial Guide

by

Ernest W. Flick



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Preface

This book describes more than 1500 emulsifying agents which are currently available for industrial usage. The book will be of value to technical and managerial personnel involved in the specification and use of emulsifiers. It has been compiled from information received from numerous manufacturers and distributors of these products.

Emulsifying agents find uses in industries ranging from food preparation and processing to drilling fluids, from cosmetics and pharmaceuticals to heavy duty cleaners and degreasers for metal finishing. Textile manufacturers, pulp and paper processors, and agricultural product manufacturers also account for large quantities of emulsifiers. Another important application is emulsion polymerization systems which yield coatings, polishes, sealants and adhesives. Obviously, the market for these products is broad and new applications are constantly being developed.

Types of raw materials used for emulsifying agents include alkoxylates, alkanol-amides, fatty acid esters, imidazolines, lecithins, quaternaries, phosphate esters, natural gums, glycerides, and sulfonates.

The data included represent selections from manufacturers' descriptions, in the manufacturer's own words, made at no cost to, nor influence from, the makers or distributors of the materials. Only the most recent information has been included. It is believed that all of the products listed here are currently available, which will be of utmost interest to readers concerned with product discontinuances.

The book lists the following product information, as available, in the manufacturer's own words:

- (1) Company name and product category,

- (2) Trade name and product number,
- (3) Product description including properties and applications, as presented by the supplier.

Products are presented by company, and the companies are listed alphabetically. The table of contents is organized in such a way as to serve as a subject index to the book. Also included are a Chemical Name Index and a Trade Name Index, for easy and rapid location of products by the reader. In addition, another section, which will be useful, contains the Suppliers' Addresses. It can be found immediately following the Product Information section.

My fullest appreciation is expressed to the companies and organizations which supplied the data included in the book.

The reader may also be interested in another, possibly complementary, volume published by Noyes, entitled *Industrial Surfactants*.

January, 1990

Ernest W. Flick

NOTICE

To the best of our knowledge the information in this publication is accurate; however, the Publisher does not assume any responsibility for the accuracy or completeness of, or consequences arising from, such information. This industrial guide does not purport to contain detailed user instructions, and by its range and scope could not possibly do so. Mention of trade names or commercial products does not constitute endorsement or recommendation for use by the Publisher.

In some cases emulsifying agents could be toxic, and therefore due caution should be exercised. Final determination of the suitability of any information or product for use contemplated by any user, and the manner of that use, is the sole responsibility of the user. We strongly recommend that users seek and adhere to a manufacturer's or supplier's current instructions for handling each material they use.

The Author and Publisher have used their best efforts to include only the most recent data available. The reader is cautioned to consult the supplier in case of questions regarding current availability.

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PRODUCT INFORMATION

AKZO CHEMICALS INC.: ETHOMEEN Ethoxylated Aliphatic Amines:

ETHOMEEN polyethoxylated amines are cationic in character but, with progressive ethoxylation, they become increasingly non-ionic and water-soluble.

Ethoxylated amines are used as neutralizing agents for acrylate thickeners, as emulsifiers, and as dye leveling, wetting and anti-static agents.

Trade Name:

ETHOMEEN C/12:

CTFA Adopted Name: PEG-2 Cocamine
Form: Liquid
Conc (%): 99

ETHOMEEN C/15:

CTFA Adopted Name: PEG-5 Cocamine
Form: Liquid
Conc (%): 99

ETHOMEEN C/20:

CTFA Adopted Name: PEG-10 Cocamine
Form: Liquid
Conc (%): 99

ETHOMEEN C/25:

CTFA Adopted Name: PEG-15 Cocamine
Form: Liquid
Conc.: 99

ETHOMEEN 18/12:

CTFA Adopted Name: PEG-2 Stearamine
Form: Solid
Conc (%): 99

ETHOMEEN 18/15:

CTFA Adopted Name: PEG-5 Stearamine
Form: Solid
Conc (%): 99

ETHOMEEN 18/20:

CTFA Adopted Name: PEG-10 Stearamine
Form: Liquid to Paste
Conc (%): 99

ETHOMEEN 18/25:

CTFA Adopted Name: PEG-15 Stearamine
Form: Liquid to Paste
Conc (%): 99

**AKZO CHEMICALS INC.: ETHOMEEN Ethoxylated Aliphatic Amines
(Continued):**Trade Name:**ETHOMEEN 18/60:**

CTFA Adopted Name: PEG-50 Stearamine
Form: Paste to Solid
Conc (%): 99

ETHOMEEN 0/12:

CTFA Adopted Name: PEG-2 Oleamine
Form: Liquid
Conc (%): 99

ETHOMEEN 0/15:

CTFA Adopted Name: PEG-5 Oleamine
Form: Liquid
Conc (%): 99

ETHOMEEN 0/25:

CTFA Adopted Name: PEG-15 Oleamine
Form: Liquid
Conc (%): 99

ETHOMEEN S/12:

CTFA Adopted Name: PEG-2 Soyamine
Form: Viscous Liquid
Conc (%): 99

ETHOMEEN S/15:

CTFA Adopted Name: PEG-5 Soyamine
Form: Liquid
Conc (%): 99

ETHOMEEN S/20:

CTFA Adopted Name: PEG-10 Soyamine
Form: Liquid
Conc (%): 99

ETHOMEEN S/25:

CTFA Adopted Name: PEG-15 Soyamine
Form: Liquid
Conc (%): 99

ETHOMEEN T/12:

CTFA Adopted Name: PEG-2 Tallow Amine
Form: Paste
Conc (%): 99

ETHOMEEN T/15:

CTFA Adopted Name: PEG-5 Tallow Amine
Form: Liquid to Paste
Conc (%): 99

ETHOMEEN T/25:

CTFA Adopted Name: PEG-15 Tallow Amine
Form: Liquid to Paste
Conc (%): 99

AKZO CHEMICALS INC.: ETHOQUAD Ethoxylated Quaternary Ammonium Salts:

These products are used as emulsifying conditioners and plasticizing agents in hair sprays.

Trade Name:

ETHOQUAD C/12:

CTFA Adopted Name: PEG-2 Cocomonium Chloride
Form: Liquid
Conc (%): 73

ETHOQUAD C/25:

CTFA Adopted Name: PEG-15 Cocomonium Chloride
Form: Liquid
Conc (%): Liquid

ETHOQUAD O/12H:

CTFA Adopted Name: PEG-2 Oleamonium Chloride
Form: Liquid
Conc (%): 72

ETHOQUAD 18/12:

CTFA Adopted Name: PEG-2 Stearmonium Chloride
Form: Paste
Conc (%): 70

ETHOQUAD 18/25:

CTFA Adopted Name: PEG-15 Stearmonium Chloride
Form: Liquid
Conc (%): 95

ETHOFAT Ethoxylated Fatty Acids:

These ethoxylated fatty acids are recommended for use as emulsifiers and emollients for creams, lotions and cleansers.

Trade Name:

ETHOFAT C/25:

CTFA Adopted Name: PEG-15 Cocoate
Form: Paste
Conc (%): 97

ETHOFAT O/20:

CTFA Adopted Name: PEG-10 Oleate
Form: Liquid
Conc (%): 97