

1991 DIRECTORY OF CHEMICAL PRODUCERS

UNITED STATES OF AMERICA

SRI International

Note: This is a reference cited in AP 42, *Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources*. AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

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DIRECTORY OF CHEMICAL PRODUCERS—UNITED STATES

GENERAL INTRODUCTION

The Directory of Chemical Producers Program is a multiclient research/publications service of SRI International's Chemical Marketing Research Center. In addition to the Directory of Chemical Producers—United States (DCP-US), the DCP Program provides comprehensive coverage of the chemical industry in Western Europe (DCP-WE), Canada (DCP-CANADA), and East Asia (DCP-EA).

The DCP-US, first issued in 1961, has always sought to provide high quality, industry interactive research that is valuable to a broad spectrum of clients interested in the chemical industry. The computer programs that access the main DCP data bases not only greatly assist the production of the Directory, but are responsible for providing the important multifaceted viewpoint it presents of the chemical industry. The bound 1991 volume of the DCP-US incorporates mergers, name changes, and acquisitions as well as new plants and expansions that were completed as of **January 1, 1991**. The information in the Directory is organized into three major sections.

- COMPANIES
- PRODUCTS
- REGIONS

COMPANIES SECTION

The COMPANIES section is an alphabetical list of companies and their products, listed by specific site of manufacture. The information contained in this section is reviewed yearly by each company listed. Typically, responses are received from more than 85% of the companies listed. Additional information is acquired daily from press releases, trade journals, correspondence and research studies conducted by the professional staff of the Process Industries Division.

- The 1,500 companies listed in the 1991 Directory are listed alphabetically by parent company name. Extensive cross-referencing of current and former company names is also provided.
- Divisions and departments of companies are listed under the parent company. Wholly owned subsidiaries are also listed under the parent company and will be found following any divisions or departments. Partly owned subsidiaries are listed independently under their own names, with percentage ownership indicated. The statement "jointly owned" indicates equal ownership.
- Addresses and telefax, telephone and telex numbers are shown for the executive or corporate headquarters of parent companies. Headquarters addresses and telephone and telex numbers are also included for divisions and subsidiaries.
- Plant locations are listed with the division or subsidiary that has manufacturing responsibility for the plant and its products rather than with a division or subsidiary that only markets the products.

- In certain cases, proprietary mixtures or fabricated products are included in the COMPANIES section in order to better indicate a company's entire operation and product line. These products are classified under the heading "General and Compounded Products" in the COMPANIES section only and are not shown in the PRODUCTS section.
- In some instances companies are included whose products are on a borderline of the definition of commercial chemicals. Also, for some companies, not all of the chemicals listed are produced in commercial quantities. Some companies may not manufacture all products simultaneously, but they do have facilities for commercial production of the chemicals shown.
- Reasonable efforts have been made to indicate trademarks and brand names, but omissions have occurred. Lack of designation does not mean that proprietary rights may not exist for a given trade name or brand name. SRI International assumes no responsibility for the validity of ownership for any such trademark, trade name, or brand name.

PRODUCTS SECTION

The PRODUCTS section is an alphabetical listing of chemicals and end-use groupings of chemicals. Its computer linkage to the COMPANIES section assures internal consistency: every product (other than those in the General and Compounded Products category) listed in the COMPANIES section also appears in the PRODUCTS section followed by the name, division or subsidiary, and plant location of each manufacturer. Extensive cross-referencing of the product names is provided in the PRODUCTS section, aiding location of chemicals with many alternate names. One of the most important facets of the Directory is the inclusion of plant nameplate production capacities for about 235 major commodity chemicals, polymers and fibers within the PRODUCTS section. An index to these products can be found at the beginning of the PRODUCTS section. The marketing research information contained in these tables was developed by the professional staff of the Process Industries Division. *Data in these tables represent what was on stream as of January 1, 1991.*

- The approximately 10,000 chemicals listed in the PRODUCTS section represent only chemicals produced in commercial quantities (i.e., exceeding 5,000 pounds or US\$5,000 in value annually) by the companies listed.
- Products are listed alphabetically. In general, the most common chemical name for each product has been chosen for use in the PRODUCTS section; however, in some cases a name is used that better describes a product's structure or function. When locating a double metal salt, e.g., zirconium sodium fluoride (alternatively sodium zirconium fluoride), it also may be necessary to look under the alternate name.
- Some products with common end uses are summarized by Product Groups, making it easier to survey particular types of chemicals. These Product Groups are as follows:

Acids, Fatty and Higher	Elastomers	Pesticides
Synthetic	Enzymes	Pigments
Alcohols, Fatty and Higher	Fibers, Man Made	Plasticizers
Synthetic	Flavor and Fragrance Chemicals	Plastics and Resins
Chelating Agents	Isocyanates	Rubber Processing Chemicals
Dyes	Medicinals	Surface-Active Agents

- For about 235 major products, capacity tables are included that list plant-by-plant capacity data (and in some cases supplemental information on process and raw material) in addition to producers and plant locations. Within these tables, the abbreviation "na" indicates that capacity information is not available for a given plant. The term "ADD TOTAL" indicates that the total capacity is the sum of the individual figures listed and does not necessarily represent the total industry capacity.
- Chemicals having names with two or more words are treated as one word in alphabetizing.
- The following abbreviated prefixes in front of a main chemical name do not affect alphabetical order: α , β , γ , δ , cis-, d-, l-, m-, N-, n-, o-, p-, sec-, sym-, tert-, trans-. However, the quantitative prefixes (mono-, di-, tri-, tetra-, etc.) are alphabetized.

REGIONS SECTION

The REGIONS section is an alphabetical listing of all 50 states, Puerto Rico and the Virgin Islands, and is computer generated from the COMPANIES section. The sorting scheme for this section is based on the first three numbers of the zip code for each plant location in the COMPANIES section. The state listing of the REGIONS section provides an alphabetical list of cities preceded by the first three digits of their zip code. To locate the companies' operating plants in a specific city, first find the city alphabetically at the beginning of the state listing, then find the area's zip code grouping listed numerically.

INQUIRY SERVICE

Program subscribers are invited to contact the Directory staff in Menlo Park, California to make use of the Program's inquiry service. This service is designed to respond to specific questions about producers or chemicals. It provides additional information on companies, products, or regions from SRI's extensive files.

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The Directory staff is provided with professional assistance from staff members of the Process Industries Division throughout the world.

SUBSCRIPTION INFORMATION

The Directory, an updating supplement, and inquiry service are supplied on an annual subscription basis. The Directory of Chemical Producers—Western Europe, the Directory of Chemical Producers—Canada, and the Directory of Chemical Producers—East Asia are also available. For additional information or descriptive brochures, contact any of the following offices:

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