

CS71-38  
Cresylic Disinfectants

U. S. DEPARTMENT OF COMMERCE  
DANIEL C. ROPER, Secretary  
NATIONAL BUREAU OF STANDARDS  
LYMAN J. BRIGGS, Director

# CRESYLIC DISINFECTANTS

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COMMERCIAL STANDARD CS71-38

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Effective Date, June 10, 1938



A RECORDED STANDARD OF THE INDUSTRY

UNITED STATES  
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PROMULGATION  
of  
COMMERCIAL STANDARD CS71-38  
for  
CRESYLIC DISINFECTANTS

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On September 20, 1937, the National Association of Insecticide and Disinfectant Manufacturers, Inc., proposed the establishment of a Commercial Standard for Cresylic Disinfectants. Accordingly, after preliminary conferences with other interested organizations, including the Federal Food and Drug Administration, the proposal was submitted on March 23, 1938, to manufacturers, distributors, and users for the approval of all concerned. The industry has since accepted and approved for promulgation by the United States Department of Commerce, through the National Bureau of Standards, the standard as shown herein.

The standard became effective on June 10, 1938.

Promulgation recommended.

I. J. Fairchild,  
*Chief, Division of Trade Standards.*

Promulgated.

Lyman J. Briggs,  
*Director, National Bureau of Standards.*

Promulgation approved.

Daniel C. Roper,  
*Secretary of Commerce.*

## CRESYLIC DISINFECTANTS

### COMMERCIAL STANDARD CS71-38

#### PURPOSE

1. The purpose of this commercial standard is to provide a minimum specification for quality, as a basis for understanding and voluntary guaranties between producers, distributors, and users in the purchase of this commodity, and as a foundation for confidence on the part of purchasers that the efficacy of the material is that which may be expected of cresylic disinfectants manufactured in conformity with a nationally recognized specification.

#### SCOPE

2. This standard covers materials, physical and chemical properties, and certification of quality of cresylic disinfectants.

#### GENERAL REQUIREMENTS

3. The product shall be made from that portion of coal tar known as "tar acids" and a soap derived from rosin acid and/or fat and/or oil of vegetable origin.

4. It shall contain not less than 50 percent of tar acids, as determined by the method described in U. S. Pharmacopoea XI for the assay of cresol in the saponated solution of cresol.

5. It shall contain not more than 25 percent of inert ingredients (water plus glycerine, if any).

6. The phenol coefficient shall be determined by the Federal Food and Drug Administration method using *B. typhosus* as the test-organism and shall be clearly stated on the label attached to each shipping container.<sup>1</sup>

7. It shall contain less than 5 percent of benzophenol.

8. It shall make clear solution with water of zero hardness at 20° C (68° F.) within the concentration range of from 1 to 4 percent. Such solutions, when kept in closed containers, shall remain either practically clear or become only slightly opalescent when allowed to stand for 24 hours at 20° C (68° F) away from direct light.

9. It shall show no soap separation when cooled down to 0° C and held at this temperature for 3 hours.

#### CERTIFICATION AND LABELING

10. The following form of statement on labels,<sup>2</sup> invoices, etc., is recommended:

The ----- Company certifies this cresylic disinfectant to conform to all requirements of the standard adopted by the NATIONAL ASSOCIATION OF INSECTICIDE AND DISINFECTANT MANUFACTURERS, INC., and recorded as Commercial Standard CS71-38 by the National Bureau of Standards of the United States Department of Commerce.  
Phenol coefficient -----

<sup>1</sup> This type of disinfectant is readily available with phenol coefficients ranging from 2 to 5. Contract buyers should specify the phenol coefficient desired.

<sup>2</sup> When used on labels this statement is in addition to, and not in lieu of, the ingredient statement required by the Insecticide Act of 1910.

**EFFECTIVE DATE**

The standard became effective on June 10, 1938.

**STANDING COMMITTEE**

The following comprises the membership of the standing committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Division of Trade Standards, National Bureau of Standards, which acts as secretary for the committee.

*Manufacturers:*

GORDON BAIRD (chairman), Baird & McGuire, Inc., Holbrook, Mass.  
H. W. HAMILTON, The White Tar Company of New Jersey, Inc., Kearny, N. J.  
Dr. E. G. THOMSEN, The J. R. Watkins Co., Winona, Minn.

*Distributors:*

J. W. SCHIFFER, The Federal Sanitation Co., Inc., 2340 Euclid Ave., Cleveland, Ohio.

F. A. HOYT, Frederick Disinfectant Co., Box 1556, Atlanta Ga.  
ELLIS DAVIDSON, Ellis Davidson Co., Inc., 38 W. 21st St., New York, N. Y.

*Users:*

Dr. A. H. JOHNSON, Sealtest, Inc., 1403 Eutaw Place, Baltimore, Md.  
Dr. C. C. McDONNELL, Insecticide Division, Food and Drug Administration,  
U. S. Department of Agriculture, Washington, D. C.  
ROBERT S. FUQUA, Johns Hopkins Hospital, Baltimore, Md.

*General interest:*

F. W. REYNOLDS (secretary), Division of Trade Standards, National Bureau of Standards, Washington, D. C.

**HISTORY OF PROJECT**

On September 20, 1937, the National Association of Insecticide and Disinfectant Manufacturers, Inc., requested the establishment of a commercial standard for cresylic disinfectants, and submitted as a basis for such a standard, a specification adopted officially by the Association and followed by a large proportion of the membership.

The Division of Trade Standards consulted other interested individuals and organizations, and led the discussion of the proposed commercial standard at a convention of the Association in New York City on December 6, 1937. After discussion, the convention voted to recommend establishment of a commercial standard through the regular procedure of the National Bureau of Standards.

In view of the large consumer and distributor participation during the Association convention and subsequent review of the proposed commercial standard by the Federal Food and Drug Administration, it appeared that the purpose of a public hearing had been accomplished and the situation did not warrant the calling of a general conference for further consideration of the specification.

Accordingly, on March 23, 1938, the recommended commercial standard was circulated to the industry for written acceptance by producers, distributors, and users. Following satisfactory acceptance and in the absence of active opposition, the establishment of the standard was announced June 10, 1938.

## ACCEPTANCE OF COMMERCIAL STANDARD

This sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this commercial standard.

Date \_\_\_\_\_

Division of Trade Standards,  
National Bureau of Standards,  
Washington, D. C.

Gentlemen:

Having considered the statements on the reverse side of this sheet, we accept the Commercial Standard CS71-38 as our standard of practice in the

Production <sup>1</sup>                      Distribution <sup>1</sup>                      Use <sup>1</sup>

of cresylic disinfectants.

We will assist in securing its general recognition and use, and will cooperate with the standing committee to effect revisions of the standard when necessary.

Signature of individual officer \_\_\_\_\_ (In ink)

(Kindly typewrite or print the following lines)

Name and title of above officer \_\_\_\_\_

Company \_\_\_\_\_  
(Fill in exactly as it should be listed in pamphlet)

Street address \_\_\_\_\_

City and State \_\_\_\_\_

<sup>1</sup> Please designate which group you represent by drawing lines through the other two. Please file separate acceptances for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade papers, colleges, etc., desiring to record their general approval, the words "in principle" should be added after the signature.

## TO THE ACCEPTOR

The following statements answer the usual questions arising in connection with the acceptance and its significance:

1. *Enforcement.*—Commercial standards are commodity specifications voluntarily established by mutual consent of the industry. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions; but, since they represent the will of the industry as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts, by means of labels, invoices, and the like.

2. *The acceptor's responsibility.*—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria, and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production, distribution, or consumption of the article in question.

3. *The Department's responsibility.*—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is fourfold: First, to act as an unbiased coordinator to bring all branches of the industry together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptance and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. *Announcement and promulgation.*—When the standard has been endorsed by companies representing a satisfactory majority of production, the success of the project is announced. If, however, in the opinion of the standing committee of the industry or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.

## ACCEPTORS

The organizations and individuals listed below have accepted this specification as their standard of practice in the production, distribution, and use of cresylic disinfectants. Such endorsement does not signify that they may not find it necessary to deviate from the standard nor that producers so listed guarantee all of their products to conform with the requirements of this standard. Therefore specific evidence of quality certification should be obtained where required.

## ASSOCIATIONS

American College of Surgeons, Chicago, Ill.  
 American Hospital Association, Committee on Simplification and Standardization of Hospital Furnishings, Supplies, and Equipment, Chicago, Ill.  
 American Hotel Association of the United States and Canada, New York, N. Y. (In principle.)  
 American Sanatorium Association, New York, N. Y.  
 Associated Industries, Ashton, Md.  
 National Council of Women, Consumer Interests, Belmont, Mass.  
 Overlook Hospital Association, Summit, N. J.

## FIRMS

Abbott Co., The, Milwaukee, Wis.  
 Ace Supply Co., Detroit, Mich.  
 Acme Chemical Co., Milwaukee, Wis.  
 Acme Exterminating Co., Boston, Mass.  
 Acme Refining Co., The, Cleveland, Ohio.  
 Acme Sanitary Supply Co., Denver, Colo.  
 Adams Co., The, E. B., Washington, D. C.  
 Alabama School Supply Co., Montgomery, Ala.  
 Allen & Vickers, Atlanta, Ga. (In principle.)  
 Allott Hardware Co., Alliance, Ohio.  
 American Brush Co., Portland, Oreg.  
 American Desk Manufacturing Co., Temple, Tex.  
 American Disinfectant Co., Washington, D. C.  
 American Disinfecting Co., Inc., Sedalia, Mo.  
 American Fluoride Corporation, New York, N. Y.  
 Antiseptic Products Co., The, Denver, Colo.  
 Antrol Laboratories, Inc., Los Angeles, Calif.  
 Apex Soap and Sanitary Corporation, Pittsburgh, Pa.  
 Apothecaries Hall Co., Waterbury, Conn.  
 Argosy Manufacturing Co., Kansas City, Mo.  
 Arkansas Paper Co., Little Rock, Ark.  
 Armitage Exterminating Co., A., Chicago, Ill.  
 Arnold Drug Co., Topeka, Kans.  
 Astor Exterminating Co., Boston, Mass.  
 Atkins Manufacturing Co., Columbia, Mo.  
 Atlantic Refining Co., Philadelphia, Pa. (In principle.)  
 Atlas Sanitary Products, Inc., Wildwood, N. J.  
 Auto-Laks Manufacturing Co., Inc., New York, N. Y.  
 Avidan, Inc., Henry G., Freeport, N. Y.  
 Azuria Chemical Co., Inc., Akron, Ohio.  
 Baird & McGuire, Inc., Holbrook, Mass., and St. Louis, Mo.  
 Bamford, Inc., M. W., Reading, Pa. (In principle.)  
 Banner Manufacturing Co., Denver, Colo.  
 Baptist State Hospital, Little Rock, Ark.  
 Baron Co., Inc., H. J., El Paso, Tex.  
 Barton Chemical Co., Chicago, Ill.  
 Bell Co., S. H., Pittsburgh, Pa.  
 Benton Service Co., Cortland, N. Y.  
 Berger Supply Co., Inc., S. J., Brooklyn, N. Y.  
 Berghauser Co., J. W., Scranton, Pa.  
 Bernstein Co., The, Los Angeles, Calif.  
 Best Chemical Co., Ft. Worth, Tex.  
 Beuret Chemical Laboratories, Ft. Wayne, Ind.  
 Birmingham, City of, Birmingham, Ala.  
 Blue Heven Corporation, The, North Kansas City, Mo.  
 Blue Ribbon Sanitary Products, St. Louis, Mo.  
 Bohman Brothers, Inc., Hartford, Conn.  
 Boren & Malone Co., Wewoka, Okla.  
 Bragdon Paint Co., M. F., Portland, Maine.  
 Brahm Laboratories, Inc., Cleveland, Ohio.  
 Breslau & Lyndwood Supply Co., Plymouth, Pa.  
 Breuer Electric Manufacturing Co., Chicago, Ill. (In principle.)  
 Brigham Co., C. T., Pittsfield, Mass.

- Brilliant Chemical Co., Inc., Brooklyn, N. Y.  
 Brown, Inc., I. Edward, New York, N. Y.  
 Buffalo Scientific Co., Buffalo, N. Y.  
 Builders' Specialty Co., Peoria, Ill. (In principle.)  
 Building Supply Co., Chicago, Ill.  
 Butler Co., William, Providence, R. I.  
 By-Joy Chemical Products, Stockton, Calif.  
 Cabell Chemical Co., The, Huntington, W. Va.  
 Calde Exterminating Co., New York, N. Y.  
 Caldwell, Pittsburgh, Pa.  
 Canadian Germicide Co., Ltd., Toronto, Canada.  
 Capitol Paper Co., Hartford, Conn. (In principle.)  
 Carman-Roberts Co., Inc., Pittsburgh, Pa. (In principle.)  
 Castle Chemical Co., New Castle, Pa.  
 Centennial Drug and Supply Co., Denver, Colo.  
 Central Chemical Co., Kansas City, Mo.  
 Central Mercantile Co., St. Joseph, Mo.  
 Central Supply Co., Buffalo, N. Y.  
 Central Wisconsin Paper Co., Wausau, Wis.  
 Certified Products Co., Inc., Birmingham, Ala.  
 Certified Supply Co., New York, N. Y.  
 Chafee Supply Service, Shelbyville, Ind.  
 Chapman & Sons Co., W. H., Wheeling, W. Va. (In principle.)  
 Charlotte Sanitary Supply Co., Charlotte, N. C.  
 Chemical Products, Inc., Shelton, Conn.  
 Chemical Specialties Co., Milwaukee, Wis.  
 Chemical Spray Co., Minneapolis, Minn.  
 Chemical Supply Co., The, Cleveland, Ohio.  
 Children's Country Home, Westfield, N. J.  
 Chippewa Products Co., St. Louis, Mo.  
 Chrisman Supply Co., Inc., Fayetteville, N. Y.  
 Cincinnati, City of, Cincinnati, Ohio.  
 City Janitor Supply and Brush Co., St. Louis, Mo.  
 Clark Products Co., Springfield, Mass.  
 Clark's Store Fixtures, Flint, Mich.  
 Clarkson Chemical Co., Inc., South Williamsport, Pa.  
 Cochrane Co., Billerica, Mass.  
 Cody Chemical Co., Manchester, N. H.  
 Colborn School Supply Co., Grand Forks, N. Dak.  
 Conray Products Co., New York, N. Y.  
 Consolidated Drug Corporation, New Orleans, La.  
 Consumers' Testing Laboratories, Philadelphia, Pa. (In principle.)  
 Continental Chemical Co., The, Cleveland, Ohio.  
 Cooper, D. L., Brooklyn, N. Y.  
 Copley Chemical Co., Everett, Mass.  
 Corkins Chemical Co., The, Cincinnati, Ohio.  
 Cotton Products Co., Des Moines, Iowa.  
 Creco Co., Inc., Long Island City, N. Y.  
 Crown Chemical Corporation, Milwaukee, Wis.  
 Danville Wholesale Drug Co., Inc., Danville, Ill.  
 Davies-Young Soap Co., The, Dayton, Ohio.  
 Deco Products Co., Inc., New York, N. Y.  
 Delta Chemical Co., New York, N. Y.  
 Delta Plumbing Supply Co., Inc., New Orleans, La.  
 DeLuxe Broom Co., Portland, Ore.  
 Den-Wal Manufacturing Co., The, Piermont, N. Y.  
 Dentocide Chemical Co., Baltimore, Md.  
 DeVine Laboratories, Inc., J. F., Goshen, N. Y.  
 Diamond Chemical and Supply Co., Wilmington, Del.  
 Dixie Chemical Co., Inc., New Orleans, La.  
 Dixie Chemical Products Co., Ltd., Birmingham, Ala.  
 Dixie Disinfecting Co., Dallas, Tex.  
 Dolge Co., C. B., Westport, Conn.  
 Dow Chemical Co., The, Midland, Mich. (In principle.)  
 Dreyfus Janitor Supply Co., Ponca City, Okla.  
 Eau Claire Book and Stationery Co., Milwaukee, Wis.  
 Ellis Products Co., Detroit, Mich.  
 Empire Chemical Co., Brooklyn, N. Y.  
 Ens-Em Chemical Co., New York, N. Y. (In principle.)  
 Enterprise Mill Soap Works, Philadelphia, Pa.  
 Ephraim, Inc., Jerome W., New York, N. Y.  
 Ewing Paper Co., B. G., Spokane, Wash.  
 Exterminator Engineering Corporation, Chicago, Ill.  
 Federal Sanitation Co., Inc., The, Cleveland, Ohio.  
 Fergusson Co., Alex C., Philadelphia, Pa.  
 Fidelity Fire Protection Co., Philadelphia, Pa.  
 Fischbeck Co., Inc., Charles, New York, N. Y. (In principle.)  
 Fox Midwest Amusement Corporation, Kansas City, Mo.  
 Frankle, Inc., Jos. E., Philadelphia, Pa.  
 Franklin Chemical Co., Rochester, N. Y.  
 Franklin Drug Store, Port Arthur, Tex.

- Franklin Products Corporation, Tampa, Fla.  
 Franklin Thrift Stores Co., The, Piqua, Ohio.  
 Frederick Disinfectant Co., Atlanta, Ga.  
 Frye Co., Geo. C., Portland, Maine. (In principle.)  
 Fuld Brothers, Baltimore, Md.  
 Gakenheimer's Pharmacy, Baltimore, Md.  
 Gates Medicine Co., Charleston, W. Va.  
 Genesee Disinfecting Co., Rochester, N. Y.  
 Giant Products Corporation, Los Angeles, Calif.  
 Gillam Soap Works, Ft. Worth, Tex.  
 Givaudan-Delawanna, Inc., New York, N. Y. (In principle.)  
 Gleam Products Corporation, Bronx, N. Y.  
 Globe Sanitary Supply Co., Los Angeles, Calif.  
 Gobell Co., John J., New Bedford, Mass.  
 Globe Printing Co., The D. H., Greenfield, Ind.  
 Good, Inc., James, Philadelphia, Pa.  
 Government Chemical Co., Cleveland, Ohio.  
 Grant Laboratories, Oakland, Calif.  
 Great Falls Paper Co., Great Falls, Mont.  
 Great Lakes Chemical Utilities, Buffalo, N. Y.  
 Green Mask Laboratories, Sioux City, Iowa.  
 Green Oil Soap Co., Chicago, Ill.  
 Greenbaum Co., Inc., C. D., New York, N. Y.  
 Griffin Bros., Inc., Portland, Oreg.  
 Griffin Chemical Co., San Francisco, Calif. (In principle.)  
 Gulf Oil Corporation, Pittsburgh, Pa. (In principle.)  
 Gulf Refining Co., Pittsburgh, Pa. (In principle.)  
 Gulf Research and Development Co., Pittsburgh, Pa. (In principle.)  
 H. & L. Products Co., Linden, N. J. (In principle.)  
 Haag Laboratories, Inc., The, Chicago, Ill.  
 Hammond & Son, Inc., W. P., Milwaukee, Wis.  
 Hart-Shaw Drug Co., Adrian, Mich.  
 Hartford Sanitary Products Co., The, Hartford, Conn.  
 Heaney Manufacturing Co., Boston, Mass.  
 Helgren Drug Co., Jamestown, N. Y.  
 Hess & Clark, Inc., Dr., Ashland, Ohio.  
 Hill Brothers Chemical Co., Los Angeles, Calif.  
 Hillyard Chemical Co., St. Joseph, Mo.  
 Hockwald Chemical Co., San Francisco, Calif.  
 Hoffman Laboratories, Detroit, Mich.  
 Holcomb Manufacturing Co., J. I., Indianapolis, Ind.  
 Hospital Bureau of Standards and Supplies, Inc., New York, N. Y.  
 Household Chemical Products, Brooklyn, N. Y.  
 Household Products Co., Indianapolis, Ind.  
 Hub City School Supply Co., Aberdeen, S. Dak.  
 Hudson Chemical Co., St. Louis, Mo.  
 Huggins & Son, James, Malden, Mass.  
 Hughes Chemical Co., Ft. Worth, Tex.  
 Huisking & Co., Inc., Chas. L., New York, N. Y.  
 Hunt Manufacturing Co., Cleveland, Ohio.  
 Hy-Gien Laboratories, Inc., Amesbury, Mass.  
 Hysan Products Co., Chicago, Ill.  
 Imperial Chemical Co., Shenandoah, Iowa.  
 Imperial Laboratories, Mt. Hope, W. Va.  
 Imperial Products Co., Philadelphia, Pa.  
 Imperial Sales Co., Halifax, Mass.  
 Industrial Chemical Laboratories, Omaha, Nebr.  
 Industrial Chemical Products Co., Philadelphia, Pa.  
 Industrial Distributors, Inc., New York, N. Y.  
 Insect Control Service, Pittsburgh, Pa.  
 Interstate Chemical Manufacturing Co., Jersey City, N. J.  
 Interstate Sanitation Co., Inc., The, Cincinnati, Ohio.  
 Iowa Hospitals, State University of, Iowa City, Iowa.  
 Jacques Beauty Supply, Omaha, Nebr. (In principle.)  
 James Soap and Chemical Co., Houston, Tex.  
 Janitorial Supply Co., Passaic, N. J.  
 Janitor's Supply House, Cranston, R. I.  
 Johnson Co., The George T., South Boston, Mass.  
 Jordan, Jr., Manufacturing Co., W. H. & F., Philadelphia, Pa.  
 Jorgenson & Co., Los Angeles, Calif.  
 Judson Co., The Dwight R., Hartford, Conn.  
 Kalo Co., The, Quincy, Ill. (In principle.)  
 Keller Products Co., Columbus, Ohio.  
 Kemiko Manufacturing Co., Irvington, N. J.  
 Kentucky Color and Chemical Co., Louisville, Ky.  
 Kerr Co., Frank W., Detroit, Mich.  
 King Chemical Co., Philadelphia, Pa.  
 Kirk Hutton & Co., New Castle, Pa.  
 Kling Exterminating Co., Chicago, Ill.  
 Kretol Co., Inc., Washington, D. C.  
 Krummenacher Drug Co., Clayton, Mo.  
 L. B. Drug Co., The, Gadsden, Ala.

- La Maison Products, Inc., Brooklyn, N. Y.  
 Lambert Chemical Co., Kansas City, Mo.  
 Lamprey Products Co., St. Paul, Minn.  
 Leader Manufacturing Co., Wilkes Barre, Pa.  
 Lee Co., A., Lawrence, Mass.  
 Lee Co. Geo. H., Omaha, Nebr.  
 Lehn & Fink Products Corporation, Bloomfield, N. J.  
 Lehrman & Sons, A. J., Harrisburg, Pa.  
 Lesh Oil Co., Ottawa, Kans.  
 Lien Chemical Co., Chicago, Ill.  
 Lone Star Supply Co., Houston, Tex.  
 Long Beach, Better Business Bureau of, Long Beach, Calif. (In principle.)  
 Long Island Sanitary Supply Co., Woodside, Long Island, N. Y.  
 Los Angeles Chemical Co., Los Angeles, Calif.  
 Los Angeles, City of, Los Angeles, Calif.  
 Louisiana Paper Co., Ltd., Shreveport, La.  
 Loveland Janitor Supply Co., Wichita, Kans.  
 Lowe Chemical Co., Nashville, Tenn.  
 Mac Nair-Dorland Co., Inc., New York, N. Y. (In principle.)  
 Magicleaner Corporation, New York, N. Y. (In principle.)  
 Maine Germicide Co., Portland, Maine.  
 Maintenance Supply and Service Co., Chicago, Ill.  
 Majestic Wax Co., Denver, Colo.  
 Marjo Products Co., Chicago, Ill.  
 Marlowe-Van Loan Corporation, High Point, N. C.  
 Masury Young Co., Boston, Mass.  
 McKesson & Robbins, Inc., Langley-Michaels Division, San Francisco, Calif.  
 McKone Sales Co., Hartford, Conn.  
 McLeod Exterminating Service, Rochester, N. Y.  
 Merck & Co., Inc., Rahway, N. J.  
 Meyer Chemical Co., Sioux City, Iowa.  
 Miami Products and Chemical Co., The, Dayton, Ohio.  
 Midwest Kildew Co., Des Moines, Iowa.  
 Miller Chemical Co., Inc., Omaha, Nebr.  
 Miller Co., J. E., Wheeling, W. Va.  
 Miller Products Co., Portland, Oreg. (In principle.)  
 Mil-Wis Chemical Co., Milwaukee, Wis.  
 Miracle Manufacturing Co., Ft. Wayne, Ind.  
 Mirax Chemical Products Corporation, St. Louis, Mo.  
 Missanna Laboratories, Inc., Little Rock, Ark.  
 Monarch Printing and Supply Co., The, Marion, Ohio. (In principle.)  
 Moulder-Oldham Co., Inc., Tulsa, Okla.  
 Murtough Supply Co., Tacoma, Wash.  
 Myers Paper Co., Memphis, Tenn.  
 Nash Medical Co., F. A., Galena, Ill.  
 National Chemical Co., New Orleans, La.  
 National Disinfecting Co., New York, N. Y.  
 National Soap Co., Detroit, Mich.  
 National Theatre Supply Co., Seattle, Wash.  
 New England Disinfectant Co., Inc., The, Boston, Mass.  
 New Orleans, Inc., Better Business Bureau of, New Orleans, La. (In principle.)  
 Neway Brush Co., Hartford, Conn. (In principle.)  
 Newbro Drug Co., Butte, Mont.  
 Newerking Cleaning Fluid Co., Inc., New York, N. Y. (In principle.)  
 Newport Industries, Inc., General Naval Stores Division, Pensacola, Fla. (In principle.)  
 Newton & Co., A. E., Brooklyn, N. Y.  
 North American Chemical Co., New York, N. Y.  
 Northern Indiana Supply Co., Inc., Kokomo, Ind.  
 Northern School Supply Co., Fargo, N. Dak.  
 Northern School Supply Co., Great Falls, Mont.  
 Nu-Way Exterminating Co., Newark, N. J.  
 O'Connor & Kremp, New York, N. Y.  
 Omaha School Supply Co., Omaha, Nebr.  
 Oneida Chemical Co., Inc., Utica, N. Y.  
 Orange Memorial Hospital, Orange, N. J.  
 Osgood Co., The Charles, Norwich, Conn.  
 Pacific Marine Supply Co., Seattle, Wash.  
 Packer-Scott Co., Portland, Oreg.  
 Palmer Products, Inc., Waukesha, Wis.  
 Palmyra Lime Products Co., Clarks-ville, Tenn.  
 Panama Paint and Chemical Products Co., Panama City, Fla.  
 Paramount Laboratories, Inc., Bing-hamton, N. Y.  
 Parkin Chemical Co., Newark, N. J.  
 Paterson General Hospital, Paterson, N. J.  
 Peabody Anti-Dust Co., Peabody, Mass. (In principle.)  
 Pearl Supply Co., New York, N. Y.  
 Peerless Soap and Chemical Co., De-troit, Mich.  
 Penn Waxing and Janitor Supplies, Wilkes-Barre, Pa.  
 Pennsylvania Chemical Co., Johns-town, Pa.  
 Pennsylvania, Commonwealth of, De-partment of Property and Supplies, Harrisburg, Pa.

- Pennsylvania Hospital, Philadelphia, Pa.  
 Pennsylvania Salt Manufacturing Co., General Laboratories Division of, Philadelphia, Pa.  
 Phinney & Co., F. B., Hyde Park, Mass.  
 Phinotas Chemical Co., Inc., New York, N. Y.  
 Pine-O-Pine Co., Inc., of Texas, Houston, Tex.  
 Pintell Co., The, New York, N. Y.  
 Pittsburgh Insect Exterminating Co., Pittsburgh, Pa.  
 Polar Chemical Co., Inc., The, Lewiston, Maine.  
 Port Huron Detergent Co., Inc., Port Huron, Mich. (In principle.)  
 Potter Drug and Chemical Corporation, Malden, Mass. (In principle.)  
 Pottsville Show Case and Fixture Co., Pottsville, Pa.  
 Powell & Co., Inc., John, New York, N. Y. (In principle.)  
 Practical Drawing Co., Dallas, Tex.  
 Preiser Co., Inc., B., Charleston, W. Va.  
 Quality Products Laboratories, Inc., Richmond, Va.  
 Range Paper Co., Inc., Virginia, Minn.  
 Rawleigh Co., The W. T., Freeport, Ill.  
 Red Letter "J" Co., Germantown, Philadelphia, Pa.  
 Reilly Tar and Chemical Corporation, Indianapolis, Ind.  
 Remo Sanitation Co., Pittsburgh, Pa.  
 Republic Chemical Co., Chicago, Ill.  
 Reynolds & Sons, James T., Lapeer, Mich.  
 Richmond Stationery Co., Inc., Richmond, Va. (In principle.)  
 Rip Products, Jamaica, Long Island, N. Y.  
 Robbins Disinfectant Co., Inc., Geo. B., Boston, Mass.  
 Roberts & Meck, Inc., Harrisburg, Pa.  
 Robertson Products Co., Inc., Theo. B., Chicago, Ill.  
 Rochester Germicide Co., Rochester, N. Y.  
 Rochester Janitor Supplies, Inc., Rochester, N. Y.  
 Rochester Laboratories, Rochester, Minn. (In principle.)  
 Rockwell Co., The, Pittsfield, Mass.  
 Rose Exterminator Co. of San Francisco, Calif., San Francisco, Calif.  
 Rouse-Dupont, Inc., New York, N. Y. (In principle.)  
 Rupp & Bowman Co., The, Toledo, Ohio.  
 Rusk Oil Co., Inc., Philadelphia, Pa.  
 St. Johns Hospital, Brooklyn, N. Y.  
 St. Louis Janitor Supply Co., St. Louis, Mo.  
 St. Lukes Hospital, Bethlehem, Pa.  
 Sancamo Disinfecting Co., Springfield, Ill.  
 Sanitary Appliance Co., Elmira, N. Y.  
 Sanitary Maintenance Co., Boston, Mass.  
 Satrang & Cleminson, Inc., Sioux City, Iowa.  
 Savannah Brush Co., Savannah, Ga.  
 Sayers & Co., Philadelphia, Pa.  
 Scientific Exterminating and Fumigating Co., West New York, N. J.  
 Scientific Supply Co., Inc., Denver, Colo.  
 Scranton Better Business Bureau, Scranton, Pa. (In principle.)  
 Seaver Laboratories, Beloit, Wis. (In principle.)  
 Selig Co., The, Atlanta, Ga.  
 Selma Chemical Products Co., New York, N. Y.  
 Sentinel Chemical Co., Inc., Oakland, Calif.  
 Sentinel Sanitary Supply Co., Oakland, Calif.  
 Service Station Supply Co., Charlotte, N. C.  
 Shearer Co. of California, B. F., San Francisco, Calif.  
 Sheppard Supply Co., M. F., Bayonne, N. J.  
 Sioux Falls Book and Stationery Co., Sioux Falls, S. Dak.  
 Skinner & Sherman, Inc., Boston, Mass. (In principle.)  
 Smith & Co., S. A., New York, N. Y.  
 Snell, Inc., Foster D., Brooklyn, N. Y.  
 Soap and Chemical, Inc., Pittsburgh, Pa.  
 Solomons Co., Savannah, Ga.  
 Solshine Manufacturing Co., Cambridge, Mass.  
 Solvent Compounds Co., Redwood City, Calif.  
 Southern Chemical Co., Charleston, W. Va.  
 Southwestern Mill Distributors, El Paso, Tex.  
 Speare's Sons Co., The Alden, Cambridge, Mass.  
 Standard Chemical Co., St. Louis, Mo. (In principle.)  
 Standard Janitors Supply Co., Inc., New York, N. Y.  
 Standard School Co., St. Louis, Mich.  
 Star Chemical Co., Inc., San Antonio, Tex.  
 Star Drug Store, Galveston, Tex.  
 Sterling Office and School Supply Co., Johnstown, Pa.  
 Sterling Soap and Chemical Co., Inc., Wilmington, Del.  
 Sunrise Supply Co., New York, N. Y.  
 Superior Chemical Co., Houston, Tex.  
 Superl Supply Co., Inc., Los Angeles, Calif.  
 Sweet Ozone Co., Brooklyn, N. Y.  
 Syracuse Victory Soap Corporation, Syracuse, N. Y.  
 T. N. T. Exterminating Co., Akron, Ohio.

- Tanglefoot Co., The (The O. & W. Thum Co.), Grand Rapids, Mich.  
 Taylor Co., H. D., Buffalo, N. Y.  
 Terra Chemical Corporation, New York, N. Y.  
 Texas Household Supply, Dallas, Tex., and Ft. Worth, Tex.  
 Thompson-Hayward Chemical Co., Kansas City, Mo.  
 Traband & Co., Inc., Louis C., East St. Louis, Ill.  
 Tri-State Janitor Supply Co., Wilmington, Del.  
 Triangle Products Co., Fairfield, Maine.  
 Tropical Chemical Co. of California, Los Angeles, Calif.  
 TryAid Chemical Products Co., Youngstown, Ohio.  
 Tulip Grove Products, Inc., Hermitage, Tenn.  
 Tumbler Laboratories, J. A., Baltimore, Md.  
 Tyler Oil and Grease Corporation, Richmond, Va.  
 Union Chemical and Supply Co., The, Akron, Ohio.  
 U. S. Termite Control Corporation, Ltd., Pasadena, Calif.  
 Universal Exterminating Co., Columbus, Ohio.  
 University Publishing Co., The, Lincoln, Nebr.  
 Van Denberg Supply Co., Rockford, Ill.  
 Vapo-Cresolene Co., New York, N. Y.  
 Vasco Products Co., Inc., Elmira, N. Y.  
 Vernon Drug Co., Middletown, N. Y.  
 Vestal Chemical Co., St. Louis, Mo.  
 Victory Chemical Co., Philadelphia, Pa.  
 Waite Hardware Co., Worcester, Mass.  
 Walsh, William Henry, Chicago, Ill.  
 Ward Co., D. L., Philadelphia, Pa.  
 Wasatch Chemical Co., Salt Lake City, Utah.  
 Washington School Supply Co., Seattle, Wash.
- Watkins Co., The J. R., Winona, Minn.  
 Waverly Manufacturing Co., Philadelphia, Pa. (In principle.)  
 West Disinfecting Co., Long Island City, N. Y.  
 Wetalene Lab., Inc., Columbus, Ohio. (In principle.)  
 White Co., L. J., Chicago, Ill.  
 White Co., Robert C., Philadelphia, Pa.  
 White Tar Co. of N. J., Inc., The, Kearny, N. J.  
 Wholesale Janitors' Supply Co., Chicago, Ill.  
 Whopper Sales, Buffalo, N. Y.  
 Wichita Broom and Floor Sweep Co., Wichita Falls, Tex. (In principle.)  
 Wilbur Chemical Co., North Bergen, N. J.  
 Williams Chemical Laboratories, Springfield, Ill.  
 Williams Co., J. A., Pittsburgh, Pa.  
 Willis Sanitary Products Co., Lincoln, Nebr.  
 Willis Supply Co., Duluth, Minn.  
 Winsale Drug Co., Brooklyn, N. Y. (In principle.)  
 Wisconsin, State of, Bureau of Purchases, Madison, Wis. (In principle.)  
 Wollen Chemical and Supply Co., Paterson, N. J.  
 Wonder Products Co., Salisbury, N. C.  
 World Spray Co., Inc., Los Angeles, Calif.  
 Yaeger-Jacquín Co., Peoria, Ill.  
 York Co., The G. W., Madrid, Iowa.  
 Zahr Soap Mfg. Co., Kansas City, Mo.  
 Zenoleum Products Co., Detroit, Mich.
- U. S. GOVERNMENT
- Agriculture, U. S. Department of,  
Washington, D. C.

## COMMERCIAL STANDARDS

CS No.	Item	CS No.	Item
0-30.	The commercial standards service and its value to business.	41-32.	Surgeons' latex gloves.
1-32.	Clinical thermometers (second edition).	42-35.	Fiber insulating board (second edition).
2-30.	Mopsticks.	43-32.	Grading of sulphonated oils.
3-38.	Stoddard solvent (second edition).	44-32.	Apple wraps.
4-29.	Staple porcelain (all-clay) plumbing fixtures.	45-36.	Douglas fir plywood (domestic grades) (second edition).
5-29.	Steel pipe nipples.	46-36.	Hosiery lengths and sizes (second edition).
6-31.	Wrought-iron pipe nipples (second edition).	47-34.	Marking of gold-filled and rolled-gold-plate articles other than watch cases.
7-29.	Standard weight malleable iron or steel screwed unions.	48-34.	Domestic burners for Pennsylvania anthracite (underfeed type).
8-33.	Gage blanks (second edition).	49-34.	Chip board, laminated chip board, and miscellaneous boards for bookbinding purposes.
9-33.	Builders' template hardware (second edition).	50-34.	Binders board for bookbinding and other purposes.
10-29.	Brass pipe nipples.	51-35.	Marking articles made of silver in combination with gold.
11-29.	Regain of mercerized cotton yarns.	52-35.	Mohair pile fabrics (100-percent mohair plain velvet, 100-percent mohair plain frieze, and 50-percent mohair plain frieze).
12-38.	Fuel oils (fourth edition).	53-35.	Colors and finishes for cast stone.
13-30.	Dress patterns.	54-35.	Mattresses for hospitals.
14-31.	Boys' blouses, button-on waists, shirts, and junior shirts.	55-35.	Mattresses for institutions.
15-29.	Men's pajamas.	56-36.	Oak Flooring.
16-29.	Wall paper.	57-36.	Book cloths, buckrams, and impregnated fabrics for bookbinding purposes except library bindings.
17-32.	Diamond core drill fittings (second edition).	58-36.	Woven elastic fabrics for use in overalls (overall elastic webbing).
18-29.	Hickory golf shafts.	59-36.	Woven dress fabrics—testing and reporting.
19-32.	Foundry patterns of wood (second edition).	60-36.	Hardwood dimension lumber.
20-36.	Staple vitreous china plumbing fixtures (second edition).	61-37.	Wood-slat venetian blinds.
21-36.	Interchangeable ground-glass joints, stopcocks, and stoppers (third edition).	62-38.	Colors for kitchen accessories.
22-30.	Builders' hardware (nontemplate).	63-38.	Colors for bathroom accessories.
23-30.	Feldspar.	64-37.	Walnut veneers.
24-30.	Standard screw threads.	65-38.	Wool and part-wool fabrics.
25-30.	Special screw threads.	66-38.	Marking of articles made wholly or in part of platinum.
26-30.	Aromatic red cedar closet lining.	67-38.	Marking articles made of karat gold.
27-36.	Mirrors (second edition).	68-38.	Liquid hypochlorite disinfectant, deodorant, and germicide.
28-32.	Cotton fabric tents, tarpaulins, and covers.	69-38.	Pine oil disinfectant.
29-31.	Staple seats for water-closet bowls.	70-38.	Coal tar disinfectant (emulsifying type).
30-31.	Colors for sanitary ware.	71-38.	Cresylic disinfectants.
31-35.	Wood shingles (third edition).	72-38.	Household insecticide (liquid spray type).
32-31.	Cotton cloth for rubber and pyroxylin coating.		
33-32.	Knit underwear (exclusive of rayon).		
34-31.	Bag, case, and strap leather.		
35-31.	Plywood (Hardwood and Eastern Red Cedar).		
36-33.	Fourdrinier wire cloth (second edition).		
37-31.	Steel bone plates and screws.		
38-32.	Hospital rubber sheeting.		
39-37.	Wool and part wool blankets (second edition).		
40-32.	Surgeons' rubber gloves.		

NOTICE.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice in their industry may secure copies of the above standards, while the supply lasts, by addressing the Division of Trade Standards, National Bureau of Standards, Washington, D. C.