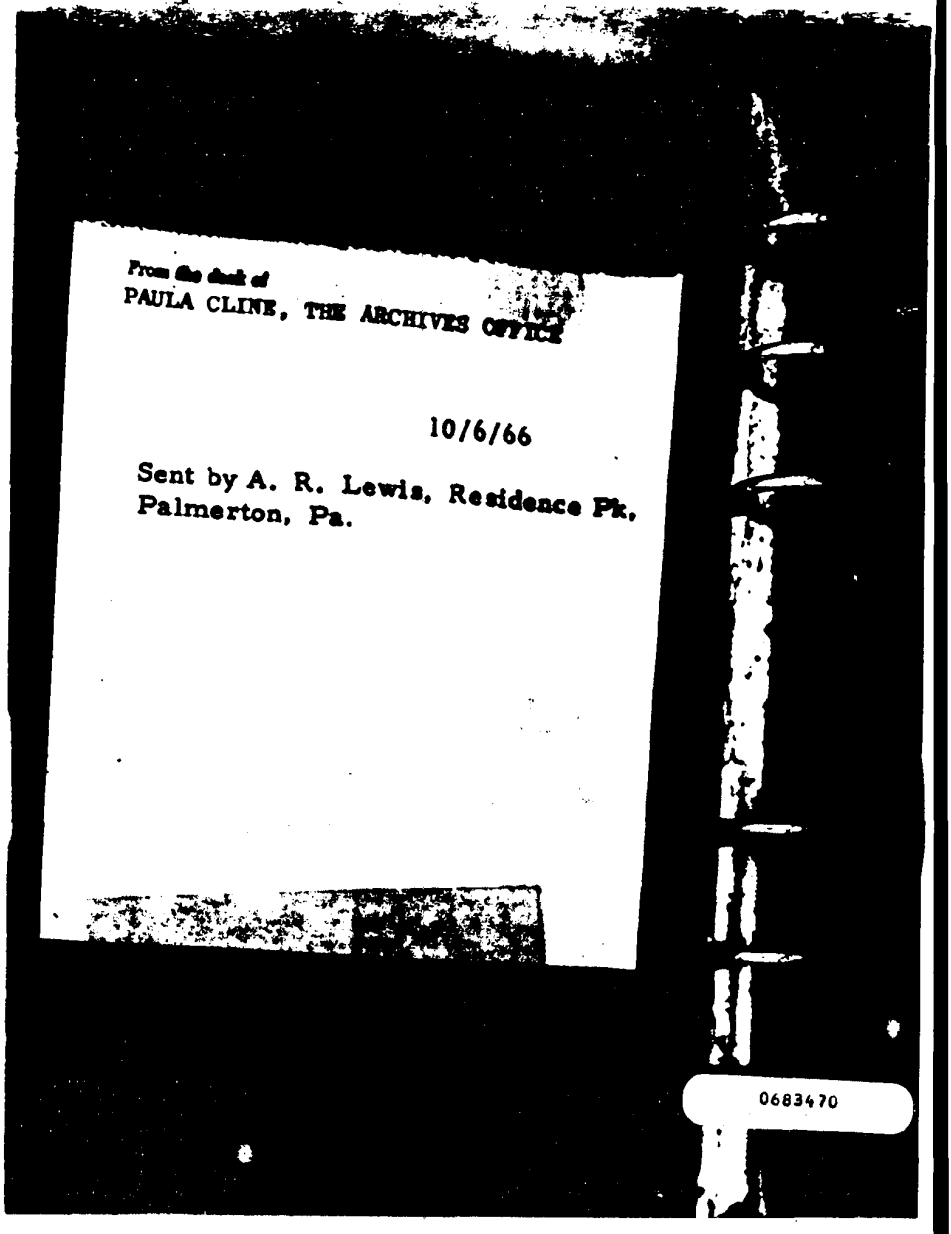
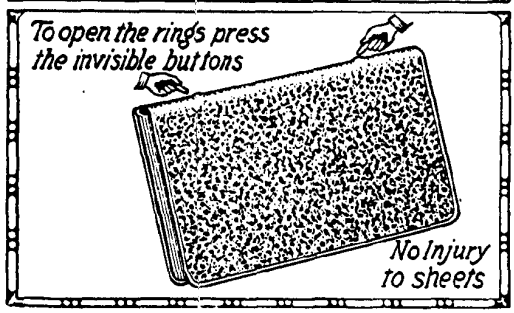


TOWOLDMON0041554
WATER_PCB-00026023

1929 LOOSE I-P LEAF 1929

	S	M	T	W	T	F	S
JAN			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31		
FEB						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28		
MAR						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31						
APR		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30				
MAY				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
JUN							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30						

	S	M	T	W	T	F	S
JUL		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			
AUG						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31						
SEP		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30				
OCT				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
NOV							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30						
DEC		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			



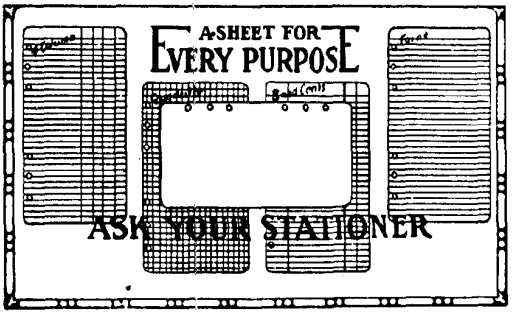
0683471

TOWOLDMON0041555
WATER_PCB-00026024

1930 LOOSE I-P LEAF 1930

	S	M	T	W	T	F	S
JAN				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
FEB							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	
MAR							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					
APR			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30			
MAY					1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
JUN							
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30					

	S	M	T	W	T	F	S
JUL			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31		
AUG						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31						
SEP		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30				
OCT				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
NOV							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30						
DEC		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			



0683472

TOWOLDMON0041556
WATER_PCB-00026025

GENERAL INFORMATION

All of our Pharmaceuticals, Flavors and Condiments, as well as a large majority of our Intermediates are manufactured at our St. Louis Works, known as "Plant A".
The products manufactured at our works at Monsanto, Illinois (Plant B), our recently acquired plants at Nitro, W. Va., and at our British Works are separately itemized under the respective works:

PRODUCTS OF PLANT B:

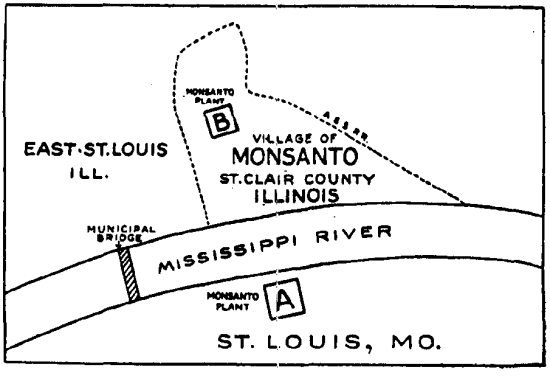
ACIDS—C. P.
- Muriatic
- Nitric
- Sulfuric

ACIDS—Commercial
- Chlorsulfonic
- Mixed
- Muriatic
- Nitric
- Sulfuric (all strengths)

Caustic Soda
Chlorine
Monochlorbenzene
Monsanto Salt (Orthochlorparatoluenesodiumsulfonate)
Nitre Cake
Orthene (Orthodichlorbenzene)
Orthonitraniline
Paranitraniline
Phenol U. S. P.
Salt Cake
Santochlor (Paradichlorbenzene)
Sodium Sulfate
Sulfur Chloride
Zinc Chloride

MONSANTO, ILLINOIS

Monsanto (St. Clair County), Illinois, where our B plant is located, is a village adjoining East St. Louis, Illinois. It was incorporated August 7, 1926. We are quoting f.o.b. Monsanto, which takes the East St. Louis rates.
Drums should be returned to East St. Louis, Illinois.
The map below shows the relative location of the two plants.



0683473

TOWOLDMON0041557
WATER_PCB-00026026

12 Platt St NY

0683474

MISCELLANEOUS:

The following products manufactured at our Nitro, West Virginia Plant will receive the general solicitation by all our sales representatives, the same as other Monsanto products.

Monochlorphenol
Dichlorphenol
Trichlorphenol
Parachlorphenol
Orthochlorphenol
Paraldehyde U. S. P.
Piperidine (80%)
Phosphorous Oxy Chloride
Sodium Bisulphite
Sodium Sulphite Anhydrous
Sodium Sulphite Crystals
Sulfuryl Chloride (Crude)
Thionyl Chloride
Triphenyl Phosphate.

PRODUCTS OF MONSANTO, LTD.,
(Ruabon, North Wales Works)

Cresylic Acid CM3 (Specially refined, duty free grade)
Cresylic Acid (All strengths)
Meta Cresol 55-60%
Ortho Cresol Pure
Para Cresol Pure
Para Cresotinic Acid
Meta Cresotinic Acid
Ortho Cresotinic Acid
Pure Pyridine

The above are products of Monsanto, Ltd., manufacture which can be handled to advantage in the United States.

0683475

TOWOLDMON0041559
WATER_PCB-00026028

CONTRACTS

Contracts are desirable and are wanted on most goods. Follow contract information given on product sheets, as to length of term, protection and other matters to be observed.

Where freight is allowed on contracts the rubber stamp

> Freight allowance on this contract contemplates Buyer taking shipments of 100 lbs. or more. Freight allowance on quantities of less than 100 lbs. will be made on the L. C. L. rate for 100 lbs. and over.

with which all offices are supplied, should be used, or its phrasing should be written in.

TERMS

The terms on Pharmaceuticals, Flavors, Condiments, and Intermediates are—net cash 30 days, or 1% for cash within 10 days from date of invoice, where credit is approved.

Terms on Heavy Acids and Chemicals are noted below:

30 Days Net	1%, 10 Days, 30 Days Net
Muriatic Acid	
Nitre Cake	
Nitric Acid	C. P. Acids
Salt Cake	Caustic Soda
Sodium Sulfate	Chlorine
Sulfuric Acid	Chlorsulfonic Acid
Zinc Chloride	Mixed Acids

On Cresylics and Cresols: Shipments direct from England—net cash on receipt of invoice—or net cash against shipping documents where credit is not approved.

Shipments from New York—Net cash 10 days from date of shipment—or net cash against shipping document where credit is not approved. (Terms for Cresols are noted specifically on price sheets.)

We feel that the terms are as much a matter of the quotation as the price itself, and should be observed as rigidly. The customer who wants and expects extra long terms is in effect asking for a reduced price. Only under the most unusual circumstances should irregular terms be allowed, and then only by express permission of St. Louis.

SAMPLES

We are glad to submit samples of our products, gratis, where they are likely to lead to some business. For packing samples we use glass stoppered bottles and attractive labels; the stoppers of the bottles being capped with gelatine. The following size samples will be sent unless otherwise ordered. The sizes given are bottle capacities and not net weights of products.

Saccharin, coumarin, vanillin and methyl salicylate	1-ounce
Major salicylates	4-ounce
Minor salicylates	1-ounce
Acetyl salicylic acid	1-ounce
Caffeine, chloral hydrate, phenolphthalein, salol, acetanilid, chloramine, etc	1-ounce
Phenol and most solid intermediates	4-ounce
Heavy acids and most liquid intermediates	16-ounce

TOWOLDMON0041560
WATER_PCB-00026029

RETURNABLE CONTAINERS

Drums or carboys for liquids are charged on the invoice with the goods, and full credit is allowed if they are returned in good condition, freight paid to St. Louis, within 90 days from date of invoice.

Charges are as follows:

Drums, about 110-gal. capacity, each	$20.00
Drums, about 55-gal. capacity, each	12.00
Drums, 500-pound, tin lined, for Methyl Salicylate, each	15.00
Carboys, about 12-gal. capacity (generally used for acids), each	5.00
Carboys, 5-gal. capacity (generally used for liquid glycerophosphates), each	2.50

SMALL PACKAGE CHARGES

Where packages are ordered smaller than the smallest listed an extra charge will be made. The following, while not of necessity always applied, will serve as a guide in estimating small size charges. These prices are to be added to the largest size package price for the correct quantity. They are extra per pound:

	Cartons	cans	cork stoppered bottles	glass stoppered bottles
5-pound	$0.02	.04	.07	.10
2-pound	.05	.06	.11	.16
1-pound	.06	.09	.17	.25
½-pound	.10	.16	.24	.36
¼-pound	.16	.24	.44	.68
2-oz.	.32	.45	.80	1.20
1-oz.	.48	.80	1.60	2.40

PACKING CHARGES

When small lots (less than 25 pounds) of any goods except coumarin and vanillin are ordered shipped by parcel post or express there is a charge for the outer shipping carton which varies with its size. The following list gives a pretty good idea of about how these charges run:

Carton number	Will carry	Price each
25	1x 1-lb. package, any product	$0.06
101	5x 1-lb. package, saccharin	.15
105	1x 5-lb. package, any product	.15
106	2x 5-lb. package, any product	.15
107	2x10-lb. package, saccharin or 1x 5-lb. package, caffeine cubes	.17
111	1x10-lb. package, any product	.15
113	1x15-lb. package, any product	.15
	Paper package	.10

0683477

TOWOLDMON0041561
WATER_PCB-00026030

PACKAGES

While on special order packages of any size can be furnished, it is very desirable that regularly listed sizes be adhered to. This practice simplifies stock keeping, obviates confusion and works for the ultimate good of the industry. Please, therefore, try to sell standard listed sizes, taking orders for specials only with the understanding that there may be a delay in filling and that an extra charge for package may be necessary.

BARRELS used by us are good sturdy sugar barrels that will stand shipment well.

KEGS are barrel shaped packages in smaller sizes.

DRUMS for dry products are straight sided packages. The only drums now used are those made by the Carpenter Container Company. They have wooden tops and bottoms and very heavy paper composition sides. They are very strong and when closed are practically waterproof.

DRUMS for liquids are cylindrical packages with bungs, made for many round trips.

BOXES are heavy cardboard or fiber cartons, square in section. A bag of crinkled paper, similar to a barrel liner, is placed inside, filled with the material and the top gathered and tied. This package is strong and ships well for lots of about 25 lbs. or so.

CARTONS are light cardboard boxes, round in section, used for small lots of dry products.

CANS or tins may be round or square in section, depending on the custom for the particular product in question.

CARBOYS are big bottles packed in wooden cases with a hood to protect the bottle neck. The 5-gallon ones used for glycerophosphate solutions are equipped with lids that cover the neck completely.

PHENOL tins are enclosed in kegs or barrels with the space between filled with an absorbent and cushioning material, except the 25 and 50-lb ones, which are square cans, boxed.

TOWOLDMON0041562
WATER_PCB-00026031

MARCH 9, 1929

INQUIRIES FOR NEW PRODUCTS

We are interested in new products, but to justify their consideration THEY MUST PROMISE AN ULTIMATE PROFIT.

We receive frequent requests to supply products which are not listed in the Price Manual. Sometimes we may manufacture these as intermediates incident to our regular processes, at other times they could be made readily if the demand is sufficient—and in still other cases the manufacture of the product is too remote from any of our operations to be of interest to us.

The Sales organization is not expected to make a survey of the market possibilities of such a product, but as much of the following information as may be obtained from the inquirer will be helpful in disposing of the inquiry intelligently. The following points should be covered:

1. Is the product now being used by the inquirer and in what quantity?
2. Are others interested in the same product—in other words, what is the apparent total market?
3. Is the product made in this country? If so, by whom? Is the quality and service satisfactory?
4. Always obtain a sample of the product, if now in use.
5. Any other information, such as the specific application intended, will be of value in judging whether the field is a growing one.

Before referring such an inquiry to the Research or Manufacturing Departments, it is the duty of the Development Department to make a survey of the available market and to recommend that the product be investigated if there is evidence that its manufacture will be profitable.

The introduction of new products while not a function of the Sales Department, must be followed initially as above outlined in order that the subject may be taken up intelligently by the Development Department.

0683479

TOWOLDMON0041563
WATER_PCB-00026032

SACCHARIN MONSANTO

	500-lb. lots	100-lb. lots	25-lb. lots	10-lb. lots	less
100-lb. drums incl., per lb...	$1.70	1.75	...	...	...
25-lb. cans incl., per lb.....	1.70	1.75	1.80	...	...
5-lb. cans incl., per lb.....	1.70	1.75	1.80	1.85	1.90
1-lb. cans incl., per lb.....	1.80	1.85	1.90	1.95	2.00
½-lb. cans incl., per lb.....	1.85	1.90	1.95	2.00	2.05
¼-lb. cans incl., per lb.....	1.90	1.95	2.00	2.05	2.10
1-oz. cans incl., per lb.....	2.30	2.35	2.40	2.45	2.50

F.o.b. St. Louis, Chicago or New York.

Freight equalized with Chicago, New York or Philadelphia. Freight allowed to but not equalized with Albany, Baltimore, Boston, Detroit.

Saccharin can be supplied in soluble powder (1B), soluble granular (or fine crystals) (1A) or in insoluble powder (1D) at the same price. Soluble pea crystals (1C) 10c lb. advance.

Orders must specify form wanted.

CONTRACTS on any form will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Insoluble Powder

White crystalline powder.
Loss on drying at 130° C.: 0.75% maximum.
Ash 0.5% maximum.
Melting point: 228° C. minimum.
Benzoates, salicylates or ammonium compounds: none.
Purity: 98.0% minimum.
Approximately 550 times as sweet as sugar.

Soluble Powder

Fine white powder.
Loss on drying: 5.8% maximum.
Benzoates, salicylates or ammonium compounds: none.
Solubility in water: 1:1,2, complete.
Purity: 98.0% minimum.
Approximately 500 times as sweet as sugar.

Granular or Fine Crystals

Loss on drying: 14.5% maximum.
Benzoates, salicylates or ammonium compounds: none.
Solubility in water: 1:1.2, clear.
Purity: 98.0% minimum.
Approximately 450 times as sweet as sugar.

0683480

TOWOLDMON0041564
WATER_PCB-00026033

Monsanto began the production of saccharin, both soluble and insoluble forms, in 1901. The insoluble saccharin is straight 100% benzosulfinidum and is considered 550 times as sweet as sugar; whereas the soluble form is the sodium salt of the insoluble form and is 500 times as sweet as cane sugar. To arrive at a better understanding as to the comparative sweetness of this modern and economical sweetener all we have to do is to cite the bottlers' formula: one fluid ounce of solution of saccharin made by dissolving one pound of soluble saccharin in a gallon of water is equivalent in sweetening power to three and one-half pounds of the best granulated sugar.

It is obvious that this condiment, for such it is, profitably can be used in the manufacture of beverages, as well as canned foods, preserves, etc.

In the manufacture of tooth pastes and mouth washes, saccharin is the ideal sweetening agent since it does not ferment, does not cause the product to become sour and does not crystallize around the stopper.

This product, which at first was only a chemical curiosity, now finds itself to be a very important commercial commodity. Besides the commercial uses above mentioned, it is used as a harmless sweetener by diabetics and others who cannot tolerate sugar. Saccharin has benefited mankind and advantageous applications as a sweetener are increasing.

The annual per capita consumption of sugar in the United States is over 100 pounds. Many people use much more, destroying the appetite for necessary foods, unbalancing the diet and causing decayed teeth. The wider use of saccharin is desirable.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Rhodia Chemical Co., New York.

0683481

TOWOLDMON0041565
WATER_PCB-00026034

VANILLIN MONSANTO

Crystalline Needles

	1000-lb. lots	500-lb. lots	100-lb. lots	25-lb. lots	5-lb. lots	less
25-lb. cans, incl., per lb.	$5.00	5.25	5.50	5.75	...	...
5-lb. cans, incl., per lb.	5.00	5.25	5.50	5.75	6.00	...
1-lb. cans, incl., per lb.	5.15	5.40	5.65	5.90	6.15	6.15
1-oz. cans, incl., per lb.	5.50	5.75	6.00	6.25	6.50	6.50

F.o.b. St. Louis, Chicago, New York, San Francisco, Los Angeles, Seattle, St. Paul. Transportation allowed to Cincinnati, Detroit, Indianapolis, Kansas City, New Orleans, Spokane, Philadelphia, Portland, Tacoma.

CONTRACTS will be taken for 25 pounds or more over twelve months with protection.

MONSANTO SPECIFICATIONS

Fine white crystalline needles.
Odor: characteristic.
Melting point: 81°-82° C.
(U.S.P.X. specifications: 80°-82° C.)
Solubility in alcohol: 1:10, clear.

Vanillin is the essential flavoring principle of vanilla. Vanilla flavor was introduced in Europe as early as 1510; its popularity continued to climb, succeeding years bringing about an increased demand. Many vanilla plantations in various climes supplanted the vanilla grown wild, but still the demand crowded the supply. With other factors, such as a speculative market, whims of the native laborers, vagaries of climate, soon led to an attempt to prepare vanillin independently of nature.

The real commercial production of vanillin dates back to 1876. Today, vanillin of an excellent quality is available at a moderately low price. This product, prepared in a chemical plant from clove oil rather than in nature's laboratory, is far more economical than vanilla beans. One ounce of vanillin equals in flavoring value about two and one-half pounds of vanilla beans. Vanillin at first was a laboratory curiosity, costing about $768 a pound, while today it can be had in commercial quantities at $8.00 per pound or less.

0683482

TOWOLDMON0041566
WATER_PCB-00026035

Vanillin is a definite chemical compound—namely methyl protocatechuic aldehyde and in pure form is white. There have been many arguments for a less pure product, but all have been proven to be misleading. Pure vanillin is white; the whiter the purer. VANILLIN MONSANTO is pure white and is packed in sealed containers that guard against any pilferage or adulteration.

Vanillin is no longer considered an imitation. It is well established on its own plane and is recognized by both State and Federal food authorities. During its comparatively short life, vanillin has greatly replaced the less sanitary and less accurate vanilla bean, and now stands on its own merits.

AVAILABLE LITERATURE

Booklet: History of Vanillin and Its Uses.
Folder: Vanillin Up-Stage to Stay.
Folder: Vanillin Monsanto.

COMPETITIVE MANUFACTURERS

S. T. Bush Company (Givaudan-Delawanna), Delawanna, N. J.
Fries Bros., New York.
Maywood Chemical Co., Maywood, N. J. (selling agents, Fritzsche, Ungerer, Dodge & Olcott).
Verona Chemical Co., Newark, N. J. (selling agents, George Lueders & Co.).

0683483

TOWOLDMON0041567
WATER_PCB-00026036

Telegraphic Code:
"Vanimprove"

VANILLIN MONSANTO IMPROVED

CRYSTALLINE NEEDLES

	500-lb. lots	100-lb. lots	less
25-lb. cans incl., per lb.	$4.50	5.00	5.25
5-lb. cans incl., per lb.	4.50	5.00	5.25
1-lb. cans incl., per lb.	4.65	5.15	5.40
1-oz. cans incl., per lb.	5.00	5.50	5.75

F.o.b. St. Louis, Chicago, New York, Boston, San Francisco, Los Angeles, Seattle, St. Paul. Transportation allowed to Cincinnati, Detroit, Indianapolis, Kansas City, New Orleans, Philadelphia, Spokane, Portland, Tacoma, Baltimore.

CONTRACTS will be taken for 25 pounds or more over twelve months with protection.

MONSANTO SPECIFICATIONS

Fine white crystalline needles.
Odor: characteristic.
Melting point: 81° C. Minimum.
Solubility in alcohol: 1:10 complete.

The radical changes up and down, the crop failures and other speculative features of the clove market have made it unsatisfactory from the standpoint of the vanillin manufacturer.

The admitted superiority of Clove Vanillin up until now precluded any change of raw materials on our part. Six years of research have resulted in a new process—the vanillin comparing favorably, in fact, being slightly purer than previous production, which of itself approximated 100%.

No "excuse" is offered for the new product. It possesses inherent qualities. It permits economy in manufacture, and since all materials are made within our plant, the supply and price of these are not subject to fluctuation.

For any who have a prejudice in favor of Clove Vanillin, we shall keep our clove plant intact, and therefore fill their requirements. There is no hesitancy in recommending the new product, which is not only satisfactory, but is offered at a price lower than that applying to Clove Vanillin.

AVAILABLE LITERATURE

Folder: New and Improved Vanillin.
Leaflet: Vanillin Monsanto.

COMPETITIVE MANUFACTURERS

None in United States.

0683484

TOWOLDMON0041568
WATER_PCB-00026037

CAFFEINE U. S. P.

(CAFFEINE ALKALOID)

Powder

	2,000 lb. lots	1,000-lb. lots	100-lb. lots	25-lb. lots	less
		or on Contract			
100-lb. drums incl., per lb.	$2.35	2.40	2.45	...	...
25-lb. cans incl., per lb.	2.40	2.45	2.50	2.55	...
10-lb. cans incl., per lb.	2.45	2.50	2.55	2.60	2.60
5-lb. cans incl., per lb.	2.45	2.50	2.55	2.60	2.60
1-lb. cans incl., per lb.	...	...	2.90	2.90	3.00

F.o.b. points: Same as Salicylates, q.v.

Caffeine powder is also known as flakes. Caffeine can be supplied also in cubes about an inch (3A), at 10c a pound extra, and in the form of an anhydrous powder (3B) at 20c a pound extra.

Unspecified orders will be filled with the powder.

CONTRACTS on any form will be taken over twelve months with protection. Caffeine Citrated U.S.P. should be included in caffeine contracts as we are anxious to push this product.

MONSANTO SPECIFICATIONS

Color: white.
Odorless.
Loss on drying at 80° C. to constant weight:
crystalline product 6.5% maximum,
anhydrous product 0.25% maximum.
Readily carbonizable impurities: with sulfuric or nitric acid, not more than a faint yellowish color.
Melting point: 235° C. minimum.
Note: U. S. Pharmacopoeia X permits a maximum loss on drying of 9%.

Caffeine is one of the oldest known drugs; it exists naturally in tea, coffee, kola, guarana, mate, etc. It has been used by savage and civilized people for many centuries as a stimulant both of muscular and mental activities.

Therapeutically, caffeine is regarded as a heart stimulant.

It is distributed by pharmaceutical manufacturers in the form of hypodermic tablets, ampoules, and in compound tablets, particularly combined with aspirin and acetphenetidin.

Large quantities of caffeine are used in non-alcoholic beverages for its mild stimulating effect. This effect, in contrast to alcoholic stimulation, is not followed by a period of depressed activity.

Many years of observation, supplemented by modern investigators, notably S. C. Prescott, Professor of Physiological Chemistry in the Massachusetts Institute of Technology, whose report as made to the Coffee Roasters Association in 1924, has led to the conclusion that caffeine as an ingredient of beverages is harmless.

The cube form of caffeine rapidly is going out of use, although at one time it was largely preferred. The cubes are merely blocks cut from the mass of crystals as deposited in the crystallizing pans.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Maywood Chemical Works, Maywood, N. J. (R. & H., selling agents).
Frederick Stearns & Company, Detroit.
Kaffee Hag, Cleveland, Ohio (by-product).

0683485

TOWOLDMON0041569
WATER_PCB-00026038

CAFFEINE CITRATED U. S. P.

Powder

	100-lb. lots	25-lb. lots	10-lb. lots	5-lb. lots
25-lb. cans incl., per lb.	$1.85	1.90	...	...
5-lb. cans incl., per lb.	1.95	2.00	2.05	2.10

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.
Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

CONTRACTS will be taken over twelve months with protection, or this item may be included with caffeine U.S.P. on a combined contract.

MONSANTO SPECIFICATIONS

White powder.
Odorless.
Loss on drying to constant weight at 80° C.: 5.0% maximum.
Tartrates or sulfates: none.
Caffeine content 48 to 52%.

Caffeine citrate has been found in the Monsanto laboratory to be a definite compound. The United States Pharmacopoeia X assumes that it is a mechanical mixture of caffeine and citric acid.

In medicine, caffeine citrate is to be considered as a form of administering caffeine.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Mallinckrodt Chemical Works, St. Louis, Mo.
Merck & Company, Rahway, N. J.
New York Quinine & Chemical Works, Inc., Brooklyn.

0683486

TOWOLDMON0041570
WATER_PCB-00026039

SALICYLATES

Acetyl salicylic acid U. S. P. or ASPIR-GRAN, per lb.	$0.75
Acetyl salicylic acid U.S.P. 10% starch granulations, white, pink or green, per lb.	.69½
Acid salicylic U.S.P., per lb.	.40
Acid salicylic U.S.P. powder, per lb.	.43
Ammonium salicylate U.S.P., per lb.	1.15
Calcium salicylate, per lb.	1.20
Magnesium salicylate, per lb.	1.10
Methyl salicylate (500-lb. drums), per lb.	.40
Methyl salicylate (50-lb. cans), per lb.	.42
Potassium salicylate, per lb.	1.15
Salol U.S.P., per lb.	.90
Salol U.S.P. powder, per lb.	1.00
Sodium salicylate U.S.P., per lb.	.47
Strontium salicylate U.S.P., per lb.	1.10

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS for assorted salicylates will be taken over 12 months with protection, against which any or all of the above may be drawn. On contracts for 10,000 lbs. or more, the maximum must not exceed the minimum by more than 15% of the minimum.

The above schedule should be used in writing up contracts and a notation made that for smaller packages than barrels or 100-lb. kegs an extra charge is to be made, in accordance with our regular schedule.

MONSANTO SPECIFICATIONS

See sheets on individual salicylates.

Salicylates, considered as a group, constitute one of the most important therapeutic agents. Their very general application is based on the antipyretic and analgesic effects which they produce, as well as the effectiveness with which they may be used as a remedy for certain types of rheumatism.

The salicylates are classed among our safest medicinals. Although salicylic acid itself is too irritant for direct administration, the selection of salts and esters available cover a wide range. Chief among these derivatives of salicylic acid are the time tested standbys: sodium salicylate, methyl salicylate and acetyl salicylic acid (aspirin).

0683487

TOWOLDMON0041571
WATER_PCB-00026040

All salicylates reflect the quality of the salicylic acid from which they are produced. In turn, the finished pharmaceutical or proprietary product reflects the quality of the material employed in its manufacture, and it is important, therefore, to insist on salts of salicylic acid that are of the highest purity.

Monsanto salicylic acid meets not only the requirements of the U.S. Pharmacopoeia, but also those of the Japanese Pharmacopoeia (which maintains an exceedingly high standard for this product). Salicylic acid is manufactured by Monsanto in its own works. Painstaking plant control insures constant dependable quality.

Monsanto salicylates made from this exceptionally pure salicylic acid are preferred by particular purchasers because of their uniformity. The absolute whiteness of Monsanto sodium salicylate, for instance, together with its clear solubility in both water and alcohol, denotes the high quality of the product.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

The Dow Chemical Company, Midland, Mich.
Heyden Chemical Corporation, New York.
Merck & Company, Inc., Rahway, N. J.

TOWOLDMON0041572
WATER_PCB-00026041

SODIUM SALICYLATE U. S. P.

Powder

	200-lb. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots
200-lb. bbls. incl., per lb.	$0.47	...	...	...
100-lb. kegs incl., per lb.	.47	.47	...	...
25-lb. boxes incl., per lb.	.48	.48	.49	.50

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan (Dow) whenever it is a competitive selling point.

CONTRACTS will be taken over twelve months with protection or this item may be included in an assorted salicylate contract.

MONSANTO SPECIFICATIONS

White powder.
Odor: none.
Sulfates or thiosulfates: none.
Heavy metals: none.
Solubility in alcohol: 1:10, clear and colorless.
Solubility in water: 1:10, clear and colorless.
Purity: essentially 100%.
Fineness: retained by 100 mesh, 10% maximum.

Our production of sodium salicylate is remarkable for its whiteness and inherent purity. Whether intended for tablets, capsules or general prescription work the superiority of the Monsanto product is manifest.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corporation, New York.
Merck & Company, Rahway, N. J.

0683489

TOWOLDMON0041573
WATER_PCB-00026042

ACID SALICYLIC U. S. P.

Needles

	150-lb. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots
150-lb. bbls. incl., per lb.	$0.40	.40	...	...
100-lb. bbls. incl., per lb.	.40	.40	...	...
25-lb. boxes incl., per lb.	.41	.41	.42	.43

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan (Dow) whenever it is a competitive selling point.

Acid Salicylic U.S.P. can be supplied also in powder (4-C-2) at 3c per pound extra.

CONTRACTS on either form will be taken over twelve months with protection or this item may be included in an assorted salicylate contract.

Unspecified orders will be filled with the needles.

MONSANTO SPECIFICATIONS

Fine, white prismatic needles.
Organic impurities: not more than a light yellow color with sulfuric acid.
Melting point: 158° C. Minimum.
Purity: essentially 100%.

The high degree of purity of our salicylic acid is indicated by the melting point, which is higher than is required by the United States Pharmacopoeia.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.

Heyden Chemical Corporation, New York.

Merck & Company, Rahway, N. J.

0683490

TOWOLDMON0041574
WATER_PCB-00026043

Telegraphic Code:
"Salibee."

ACID SALICYLIC B GRADE

150-lb. bbls. incl., per lb.....$0.33

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan (Dow), whenever it is a competitive selling point.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Gray or pinkish white needle crystals.
Purity (by titration): 98.75% minimum.
Melting point: 158.0° C. minimum.
Ash: 0.05% maximum.

This is a *dye intermediate*, employed in the production of amino salicylic acid which is used in making dyes, such as Diamond Black, Diamond Green, and Anthracene Acid Black, and as a preservative in textile finishing.

Monsanto is well grounded in the manufacture of salicylic acid; with the phenol produced in our own works, we use also raw materials of our own manufacture, caustic soda, carbon dioxide, and sulfuric acid to produce salicylic acid.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Merck & Company, Rahway, N. J.
The Dow Chemical Co., Midland, Mich.
Heyden Chemical Corporation, New York.

0683491

TOWOLDMON0041575
WATER_PCB-00026044

AMMONIUM SALICYLATE U. S. P.

Crystalline Powder

	200-lb. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots	less
200-lb. bbls. incl., per lb.....	$1.15	...	...	...	...
100-lb. kegs incl., per lb.....	1.15	1.15	...	...	...
25-lb. boxes incl., per lb....	1.16	1.16	1.17	1.18	...
5-lb. cartons incl., per lb..	1.22	1.22	1.24	1.25	1.27

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS will be taken over 12 months with protection or this item may be included in an assorted salicylates contract.

MONSANTO SPECIFICATIONS

White crystalline powder.
Odorless.
Solubility in water: 1:1, complete.
Solubility in alcohol: 1:3, complete.
Reaction of water solution to litmus:
neutral or slightly acid.
Heavy metals: none.
Ash: 0.1% maximum.
Purity: 98% minimum.

For further information see sheet on salicylates.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corp., New York.
Merck & Company, Rahway, N. J.

0683492

TOWOLDMON0041576
WATER_PCB-00026045

CALCIUM SALICYLATE

Powder

	200-lb. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots	less
250-lb. bbls. incl., per lb.....	$1.20	...	...	...	...
100-lb. kegs incl., per lb.....	1.20	1.20	...	...	...
25-lb. boxes incl., per lb....	1.21	1.21	1.22	1.23	...
5-lb. cans incl., per lb.....	1.25	1.25	1.27	1.28	1.30

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS will be taken over 12 months with protection or this item may be included in an assorted salicylates contract.

MONSANTO SPECIFICATIONS

Fine white powder.
Solubility in water: 1:50, complete.
Uncombined salicylic acid: 0.25% maximum.
Heavy metals: none.
Sulfates or thiosulfates: none.

For further information see sheet on salicylates.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corp., New York.
Merck & Company, Rahway, N. J.

0683493

TOWOLDMON0041577
WATER_PCB-00026046

MAGNESIUM SALICYLATE

Powder

	200-lb. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots	less
200-lb. bbls. incl., per lb.....	$1.10	...	...	...	...
100-lb. kegs incl., per lb.....	1.10	1.10	...	...	...
25-lb. boxes incl., per lb....	1.11	1.11	1.12	1.13	...
5-lb. c.b. incl., per lb.....	1.17	1.17	1.19	1.20	1.22

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS will be taken over 12 months with protection on this item may be included in an assorted salicylates contract.

MONSANTO SPECIFICATIONS

Fine white crystalline powder.
Odorless.
Solubility in water: 1:10, complete.
Heavy metals: none.

For further information see sheet on salicylates.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corp., New York.
Merck & Company, Rahway, N. J.

0683494

TOWOLDMON0041578
WATER_PCB-00026047

POTASSIUM SALICYLATE

Powder

	100-lb. lots or contract	50-lb. lots	25-lb. lots	less
25-lb. cans incl., per lb.....	$1.15	1.18	1.20	...
5-lb. c.b. incl., per lb.....	1.22	1.24	1.26	1.27

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS will be taken over 12 months with protection or this item may be included in an assorted salicylates contract.

MONSANTO SPECIFICATIONS

White or slightly pinkish crystalline powder.
Solubility in water: 1:10, complete.
Heavy metals: none.
Uncombined alkali: none.

For further information see sheet on salicylates.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corporation, New York.
Merck & Company, Rahway, N. J.

0683495

TOWOLDMON0041579
WATER_PCB-00026048

STRONTIUM SALICYLATE U. S. P.

Powder

	Bbl. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots	less
225-lb. bbls. incl., per lb.	$1.10	...	...	...	...
100-lb. kegs incl., per lb.	1.10	1.10	...	...	...
25-lb. boxes incl., per lb.	1.11	1.11	1.12	1.13	...
5-lb. c.b. incl., per lb.	1.17	1.17	1.19	1.20	1.22

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS will be taken over 12 months with protection or this item may be included in an assorted salicylates contract.

MONSANTO SPECIFICATIONS

White crystalline powder.
Odorless.
Solubility in water: 1:20, complete.
Heavy metals: none.
Barium: none.
Purity (on a dry basis): 99 to 100%.

For further information see sheet on salicylates.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corp., New York.
Merck & Company, Rahway, N. J.

0683496

TOWOLDMON0041580
WATER_PCB-00026049

LITHIUM SALICYLATE N. F.

Powder

	Bbl. lots	100-lb. lots	50-lb. lots	25-lb. lots	5-lb. lots	less
300-lb. bbls. incl., per lb.	$1.50	...	...	...	...	...
100-lb. kegs incl., per lb.	...	1.52	...	...	...	...
50-lb. kegs incl., per lb.	...	...	...	...	...	...
25-lb. cans incl., per lb.	...	...	1.55	1.60	...	...
5-lb. c.b. incl., per lb.	...	...	...	1.67	1.72	1.72
1-lb. c.b. incl. per lb.	...	...	...	1.72	1.77	1.77
¼-lb. c.b. incl., per lb.	...	...	...	1.96	2.01	2.01
1-oz. c.b. incl.. each	...	...	...	.19	.19	.19

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS on this item will not be taken.

MONSANTO SPECIFICATIONS

White or slightly grayish powder.
Solubility in water: 1:20, complete.
Reaction of the water solution to litmus: neutral or slightly acid.
Alkalies other than lithium: 0.7% maximum.
Heavy metals: none.
Carbonates: none.
Purity: 98.5% minimum.

For further information see sheet on salicylates.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corp., New York.
Merck & Company, Rahway, N. J.

0683497

TOWOLDMON0041581
WATER_PCB-00026050

IRON SALICYLATE

Powder

	100-lb. lots or on contract	50-lb. lots	25-lb. lots	less
25-lb. cans incl., per lb.	$1.45	1.50	1.50	...
5-lb. cans incl., per lb.	1.50	1.52	1.53	1.55
1-lb. c.b. incl., per lb.	1.57	1.59	1.60	1.62
¼-lb. c.b. incl., per lb.	1.81	1.83	1.84	1.86
1-oz. c.b. incl., per oz.	...	.17	.17	.18

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS will be taken over 12 months with protection or this item may be included in an assorted salicylates contract.

MONSANTO SPECIFICATIONS

Dark violet colored powder.
Odorless.
Solubility in 10% solution caustic soda containing 30% sodium salicylate: 1:10, complete.

For further information see sheets on salicylates.

AVAILABLE LITERATURE

None.

0683498

TOWOLDMON0041582
WATER_PCB-00026051

ZINC SALICYLATE

Pure

	100-lb. lots or on contract	50-lb. lots	25-lb. lots	less
25-lb. cans incl., per lb	$1.45	1.50	1.50	...
5-lb. cans incl., per lb	1.50	1.52	1.53	1.55
1-lb. c.b. incl. per lb	1.57	1.59	1.60	1.62
¼-lb. c.b. incl., per lb	1.81	1.83	1.84	1.86
1-oz. c.b. incl., each	...	.17	.17	.18

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS will be taken over 12 months or for 1928 with protection or this item may be included in an assorted salicylates contract.

MONSANTO SPECIFICATIONS

White or frequently slightly pinkish or grayish powder.
Odorless.
Solubility in alcohol: 1:10, practically clear.

For further information see sheet on salicylates.

AVAILABLE LITERATURE

None.

0683499

TOWOLDMON0041583
WATER_PCB-00026052

Revised July 1, 1929
Revised May 1, 1931

ACETPHENETIDIN U. S. P.

(PHENACETIN)

Powder or Crystals

	1,000-lb. lots or on contract	bbl. lots	100-lb. lots	50-lb. lots	25-lb. lots	less
200-lb. bbls. incl., per lb....	$1.20	1.25	...	...	...	...
100-lb. kegs incl., per lb....	1.20	1.25	1.25	...	...	...
50-lb. kegs incl., per lb....	1.22	1.27	1.27	1.28	...	...
25-lb. boxes incl., per lb...	1.24	1.20	1.29	1.30	1.30	...
5-lb. cartons incl., per lb.	1.27	1.32	1.32	1.33	1.34	1.37

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Unspecified orders will be filled with the powder.

CONTRACTS will be taken over twelve months with protection

MONSANTO SPECIFICATIONS

White crystals or crystalline powder.

Odorless.

Free of para-phenetidin, acetanilid and carbonizable impurities.

Melting point: 134.7° C. minimum.

Fineness: powder passes 100 mesh.

Acetphenetidin is probably best known in the role of an antipyretic, it being preferable to other compounds in this respect because of the gradual but progressive lowering of the temperature to normal. This effect persists over a considerable period, following which there is no sudden, but on the contrary there may be a gradual, rise in temperature.

Acetphenetidin is prescribed not only alone, but in combination, particularly with aspirin and caffeine. Such combinations are increasing in popularity, for which there is ample justification not only in the results obtained but in the degree of safety demonstrated by wide experience.

Monsanto is the original and largest manufacturer of acetphenetidin in America.

AVAILABLE LITERATURE

Folder: Acetphenetidin (Phenacetin)

Booklet: A Condensed Resumé of the Medicinal Value of Acetphenetidin.

COMPETITIVE MANUFACTURERS

Dow Chemical Co., Midland, Mich.

0683500

TOWOLDMON0041584
WATER_PCB-00026053

PARAPHENETIDIN

Liquid

	1,000-lb. lots	450-lb. lots	100-lb. lots	less
55-gal. drums extra, approximate net weight 450 lbs., per lb.....	$1.50	1.55	...	...
25-gal. drums extra, approximate net weight 225 lbs., per lb.....	1.50	1.55	1.60	1.75

For dye makers only use the following schedule:

	1,000-lb. lots	450-lb. lots	100-lb. lots	less
55-gal. drums extra, approximate net weight 450 lbs., per lb.....	$0.80	...	...	...
25-gal. drums extra, approximate net weight 225 lbs., per lb.....	.80	.90	.95	1.20

F.o.b. St. Louis.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Dark reddish liquid.
Crystallizing point: 2 deg. C., approximately. 3.5 °C minimum
Distillation range: 96% distills within 3° C.; minimum and maximum within 247-252° C.
Solution in dilute hydrochloric acid: clear.

Paraphenetidin is the source of the dye, Violamine 3B, and several lake and pigment colors, particularly of the red type. It is also used to make paraphenetidin orthosulfonic acid, an intermediate also employed in making a similar type of colors. The dyes derived from paraphenetidin and its intermediates are characterized by the fact that they are very fast to light.

It is also the intermediate for the manufacture of acetphenetidin.

Paraphenetidin is one of a succession of intermediates which are manufactured within our works: chlorbenzene, paranitrochlorbenzene, paranitrophenetole, etc.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

0683501

TOWOLDMON0041585
WATER_PCB-00026054

GLYCEROPHOSPHATES

	1,000 lb. lots	100-lb. lots
Acid Glycerophosphoric 25%, 43-lb. carboys	$1.30	1.40
Calcium Acid Glycerophosphate 50% Solution, 50-lb. carboys	1.30	1.40
Calcium Glycerophosphate U.S.P., bbls. or 100-lb. kegs	1.30	1.40
Iron Glycerophosphate Powder, bbls. or 100-lb. kegs	3.35	3.45
Iron Glycerophosphate Scales, bbls. or 100-lb. kegs	3.50	3.60
Iron Glycerophosphate Solution, 50-lb. carboys	1.95	2.05
Magnesium Glycerophosphate, bbls. or 100-lb. kegs	3.10	3.20
Manganese Glycerophosphate, bbls. or 100-lb. kegs	2.80	2.90
Potassium Glycerophosphate 50% Solution, 50-lb. carboys	1.05	1.15
Potassium Glycerophosphate 75% Solution, 50-lb. carboys	1.25	1.35
Sodium Glycerophosphate Crystals, bbls. or 100-lb. kegs	1.30	1.40
Sodium Glycerophosphate Powder, bbls. or 100-lb. kegs	1.35	1.45
Sodium Glycerophosphate Powder Anhydrous, bbls. or 100-lb. kegs	1.55	1.65
Sodium Glycerophosphate 50% Solution, 50-lb. carboys	.55	.65
Sodium Glycerophosphate 75% Solution, 50-lb. carboys	.95	1.05

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

CONTRACTS for assorted glycerophosphates will be taken over twelve months with protection, against which any or all of the above may be drawn.

The above schedule should be used in writing up contracts and a notation made that for smaller packages than listed an extra charge is to be made in accordance with our regular schedule.

MONSANTO SPECIFICATIONS

See sheets on individual glycerophosphates.

0683502

TOWOLDMON0041586
WATER_PCB-00026055

Glycerophosphate therapy is well established among practicing physicians. For the individual who is suffering from deficient metabolism, neurasthenia, anæmia, chlorosis and for convalescents, the results which follow the administration of the glycerophosphates are gratifying.

Aside from their therapeutic effect the palatability of glycerophosphate preparations deserves mention. The resistance on the part of the patient to adhere to the directions of the physician, oftime experienced, is minimized by the administration of glycerophosphates. This phase of the subject is to be considered especially in the case of nervous individuals. Without catering too much to their whims, it is nevertheless advantageous to avoid the use of distasteful medicaments.

Monsanto was the first in America and is today the world's largest manufacturers of glycerophosphates. Coincident with the entrance of Monsanto into this field, standards of purity were raised materially. Particularly in the case of medicinal and pharmaceutical products is this insistence on quality on the part of the manufacturer of the utmost importance.

Questions regarding glycerophosphates, including reference to their compounding, are invited.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto.

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.

0683503

TOWOLDMON0041587
WATER_PCB-00026056

Telegraphic Code:
"Orthosole"

ORTHONITRANISOLE

Liquid

	5,000 lbs. and over	2,000 lbs. and over	less
55-gal. drums (extra), per lb.....	$0.70	.72	.74

(Approx. 500 lbs.)

F.O.B. St. Louis, freight equalized with Carneys Point, N. J.

CONTRACTS will be taken over twelve months for a definite quantity, with protection.

TERMS: 1% 10 days, 30 days net, where credit is approved.

Drums charged extra at $15.00, returnable for full credit on domestic shipments.

MONSANTO SPECIFICATIONS

Light reddish to light amber liquid.
Crystallizing point: 9.6° C. minimum.
Boiling range: 269.0 to 273.0° C.
95% within 2.0° C.
Reaction to Congo Red and Brilliant Yellow: Neutral.
Nitrophenol: None.

USES: In the manufacture of dyestuffs; manufacture of Intermediates for dyes and pharmaceuticals; organic synthesis.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

E. I. duPont de Nemours & Company, Wilmington, Del.

0683504

TOWOLDMON0041588
WATER_PCB-00026057

Telegraphic Code:
"Orthodine"

ORTHOANISIDINE

Liquid

	5,000 lbs. and over	2,000 lbs. and over	less
55-gal. drums (extra), per lb.....	**$1.50**	**1.55**	**1.60**

(Approx. 475 lbs.)

F.O.B. St. Louis, freight equalized with Carneys Point, N. J.

CONTRACTS will be taken over twelve months for a definite quantity, with protection.

TERMS: 1% 10 days, 30 days net, where credit is approved.

Drums charged extra at $15.00, returnable for full credit on domestic shipments.

MONSANTO SPECIFICATIONS

Reddish brown to amber liquid.
Crystallizing point: 4.8° C. minimum.
Specific Gravity at 20° C.: 1.09 to 1.10.
Boiling range: 223.0 to 226.0° C.
95% within 2.0° C.

USES: In the manufacture of Azo dyes; Azo Cochineal; Azoeosine.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

E. I. duPont de Nemours & Company, Wilmington, Del.

0683505

TOWOLDMON0041589
WATER_PCB-00026058

Telegraphic Code:
"Calcium"

CALCIUM GLYCEROPHOSPHATE, U.S.P.

Powder

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots
200-lb. bbls. incl., per lb.	**$1.05**	...	...	...
100-lb. kegs incl., per lb.	**1.05**	**1.15**	...	...
25-lb. boxes incl., per lb.	**1.07**	**1.17**	**1.22**	**1.27**

For delivery from Pacific Coast stocks an additional charge of 1¼c a pound will be made.

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

CONTRACTS will be taken over twelve months with protection on this item may be included in an assorted glycerophosphate contract.

MONSANTO SPECIFICATIONS

White powder.
Fineness: approximately 200 mesh.
Purity (sample dried to constant weight at 130° C.): 98% minimum.
Loss (on drying at 130° C.): 10% maximum.
Calcium (as CaO): 26.1% minimum on dry basis.
Mineral phosphates: none.
Organic acids: none.
Sulfate (as $CaSO_4$): 0.5% maximum.
Chloride (as $CaCl_2$): 0.1% maximum.
Heavy metals (U.S.P. test): negative.
Solubility in water at 25° C.: 1:50, complete.

This is the only glycerophosphoric compound official in the United States Pharmacopoeia, tenth revision.

It is recognized not only as an effective medium for administering the glycerophosphate radical but the calcium ion as well. Calcium glycerophosphate is recommended by a large proportion of the medical profession for use in treatment of nervous diseases, rickets, etc.

The Monsanto product is of exceptional purity, which is indicated by its complete solubility. From a chemical standpoint it is distinguished by the practical absence of the beta compound.

This chemical is marketed in the pure form by Monsanto. The imported products are practically all characterized by their poor solubility and frequently by an addition of an organic acid, usually citric acid.

Calcium glycerophosphate is an important ingredient of many compound elixirs and of tablets containing glycerophosphates.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto.

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.

0683506

TOWOLDMON0041590
WATER_PCB-00026059

Telegraphic Code:
"Sodium"

SODIUM GLYCEROPHOSPHATE

Crystals

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots
200-lb. bbls. incl., per lb.....	$1.05	...	...	...
100-lb. kegs incl., per lb.....	1.05	1.15	...	...
25-lb. boxes incl., per lb.....	1.07	1.17	1.22	1.27

For delivery from Pacific Coast stocks an additional charge of 1¼c a pound will be made.

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

Sodium glycerophosphate can be supplied also in powder (6-A-3) at 5c per pound extra, or in anhydrous powder (6-A-4) at 25c per pound extra.

Unspecified orders will be filled with the crystals.

CONTRACTS on any form will be taken over twelve months with protection or this item may be included in an assorted glycerophosphate contract.

MONSANTO SPECIFICATIONS

White Crystals, or powder.

Purity: 96.35% minimum, or 68% minimum basis of the anhydrous salt.

Chlorides (as NaCl): 0.1% maximum.

Sulphates: None.

Heavy Metals: None.

For further information see sheet on glycerophosphates.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto.

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.

0683507

TOWOLDMON0041591
WATER_PCB-00026060

Telegraphic Code:
50% Solution "Sodhaf"
75% Solution "Sodiumsol"

SODIUM GLYCEROPHOSPHATE

Solution 50%

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots
50-lb. carboys extra, per lb	$0.45	.55	.60	...
25-lb. cans incl., per lb	.50	.60	.65	.70

Sodium glycerophosphate can be supplied also in 75% solution (6D) at the following schedule:

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots
50-lb. carboys extra, per lb	$0.80	.90	.95	...
25-lb. cans incl., per lb	.85	.95	1.00	1.05

For delivery from Pacific Coast stocks an additional charge of 1¼c a pound will be made.

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

Unspecified orders will be filled with the 50% solution.

CONTRACTS on either form will be taken over twelve months with protection or this item may be included in an assorted glycerophosphate contract.

MONSANTO SPECIFICATIONS

75% Solution

Clear, colorless, or slightly yellowish solution.

Purity: 50% minimum, Anhydrous Sodium Glycerophosphate.
(This solution is equivalent to a 75% solution of Sodium Glycerophosphate Crystals.)

Sulphates (as Na_2SO_4): 0.5% maximum.

Chlorides (as NaCl): 0.2% maximum.

Carbonates (as Na_2CO_3): 0.8% maximum.

Free Phosphates: None.

Heavy Metals: None.

The 50% solution complies with the above specifications, differing only in actual Sodium Glycerophosphate content, namely, 35% (basis of the Anhydrous Salt).

For further information see sheet on glycerophosphates.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto.

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.

0683508

TOWOLDMON0041592
WATER_PCB-00026061

Telegraphic Code:
50% Solution "Pothaf"
75% Solution "Potassium"

POTASSIUM GLYCEROPHOSPHATE

Solution 50%

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots
50-lb. carboys extra, per lb.....	$0.95	1.05	1.10	...
25-lb. cans incl., per lb.....	1.00	1.10	1.15	1.20

For delivery from Pacific Coast stocks an additional charge of 1¼c a pound will be made.

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

Potassium glycerophosphate can be supplied also in 75% solution (6-B-10) at 20c per pound extra.

Unspecified orders will be filled with the 50% solution.

CONTRACTS on either form will be taken over twelve months with protection or this item may be included in an assorted glycerophosphate contract.

MONSANTO SPECIFICATIONS

50% Solution

Clear, slightly yellowish liquid.
Purity: 50% (basis of the anhydrous salt).
Chlorides (as KCl): 0.3% maximum.
Sulphates (as K_2SO_4): 0.1% maximum.
Carbonates (as K_2CO_3): 0.9% maximum.
Heavy Metals: None.
Free Phosphates: None.
The 75% Potassium solution complies with the above specifications, differing only in actual Potassium Glycerophosphate content, namely 75% (basis of the anhydrous salt).

For further information see sheet on glycerophosphates.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto.

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.

0683509

TOWOLDMON0041593
WATER_PCB-00026062

GLYCEROPHOSPHATES

	1,000 lb. lots	100-lb. lots
Acid Glycerophosphoric 25%, 43-lb. carboys	$1.30	1.40
Calcium Acid Glycerophosphate 50% Solution, 50-lb. carboys	1.30	1.40
Calcium Glycerophosphate U.S.P., bbls. or 100-lb. kegs	1.05	1.15
Iron Glycerophosphate Powder, bbls. or 100-lb. kegs	3.35	3.45
Iron Glycerophosphate Scales, bbls. or 100-lb. kegs	3.50	3.60
Iron Glycerophosphate Solution, 50-lb. carboys	1.95	2.05
Magnesium Glycerophosphate, bbls. or 100-lb. kegs	3.10	3.20
Manganese Glycerophosphate, bbls. or 100-lb. kegs	2.80	2.90
Potassium Glycerophosphate 50% Solution, 50-lb. carboys	.95	1.00
Potassium Glycerophosphate 75% Solution, 50-lb. carboys	1.15	1.20
Sodium Glycerophosphate Crystals, bbls. or 100-lb. kegs	1.05	1.15
Sodium Glycerophosphate Powder, bbls. or 100-lb. kegs	1.10	1.20
Sodium Glycerophosphate Powder Anhydrous, bbls. or 100-lb. kegs	1.30	1.40
Sodium Glycerophosphate 50% Solution, 50-lb. carboys	.45	.55
Sodium Glycerophosphate 75% Solution, 50-lb. carboys	.80	.90

For delivery from Pacific Coast stocks an additional charge of 1¼c a pound will be made.

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

CONTRACTS for assorted glycerophosphates will be taken over twelve months with protection, against which any or all of the above may be drawn.

The above schedule should be used in writing up contracts and a notation made that for smaller packages than listed an extra charge is to be made in accordance with our regular schedule.

MONSANTO SPECIFICATIONS

See sheets on individual glycerophosphates.

0683510

TOWOLDMON0041594
WATER_PCB-00026063

Glycerophosphate therapy is well established among practicing physicians. For the individual who is suffering from deficient metabolism, neurasthenia, anemia, chlorosis and for convalescents, the results which follow the administration of the glycerophosphates are gratifying.

Aside from their therapeutic effect the palatability of glycerophosphate preparations deserves mention. The resistance on the part of the patient to adhere to the directions of the physician, oftime experienced, is minimized by the administration of glycerophosphates. This phase of the subject is to be considered especially in the case of nervous individuals. Without catering too much to their whims, it is nevertheless advantageous to avoid the use of distasteful medicaments.

Monsanto was the first in America and is today the world's largest manufacturers of glycerophosphates. Coincident with the entrance of Monsanto into this field, standards of purity were raised materially. Particularly in the case of medicinal and pharmaceutical products is this insistence on quality on the part of the manufacturer of the utmost importance.

Questions regarding glycerophosphates, including reference to their compounding, are invited.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto.

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.

0683511

TOWOLDMON0041595
WATER_PCB-00026064

Telegraphic Codes:
Powder—"Ironpowd"
Scales—"Ferscal"
Solution—"Fersol"

IRON GLYCEROPHOSPHATE, N. F. V.

Powder

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots	less
200-lb. bbls. incl., per lb....	$2.75	...	...	...	...
100-lb. kegs incl., per lb....	2.75	2.85	...	...	...
25-lb. boxes incl., per lb...	2.77	2.87	2.92	2.97	...
5-lb. cartons incl., per lb .	2.78	2.88	2.93	2.98	3.03
1-lb. cartons incl., per lb..	2.84	2.94	2.99	3.04	3.09

F.o.b. points: see sheet on glycerophosphates.

Iron glycerophosphate can be supplied also in scales (6-B-5) at 15c per pound extra, or in solution (6-B-6), at the following schedule:

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots	less
50-lb. carboys extra, per lb.	$1.65	1.75	1.80	...	...
5-lb. bottles incl., per lb..	1.75	1.85	1.90	1.95	2.00
1-lb. bottles incl., per lb..	1.82	1.92	1.97	2.02	2.07

Unspecified orders will be filled with the powder.

CONTRACTS on any form will be taken over twelve months with protection or this item may be included in an assorted glycerophosphate contract.

MONSANTO SPECIFICATIONS

Yellowish brown powder, or shining scales.
Iron (Fe): powder, 14.2% minimum, scales 13% minimum.
Iron sulfate: 0.2% maximum.
Iron chloride: 0.1% maximum.
Mineral phosphates: none.
The scales have a slightly lower iron content than the powder.

A form of administering the glycerophosphate radical preferred by some because of the associated organic iron.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.
J. T. Baker Chemical Co., Phillipsburg, N. J.

0683512

TOWOLDMON0041596
WATER_PCB-00026065

Telegraphic Code:
"Magnesium"

MAGNESIUM GLYCEROPHOSPHATE

Powder

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots	less
200-lb. bbls. incl., per lb....	$2.80	...	...	...	...
100-lb. kegs incl., per lb....	2.80	2.90	...	...	...
25-lb. boxes incl., per lb...	2.82	2.92	2.97	3.02	...
5-lb. cartons incl., per lb.	2.83	2.93	2.98	3.03	3.08
1-lb. cartons incl., per lb..	2.89	2.99	3.04	3.09	3.14

F.o.b. points: see sheet on glycerophosphates

CONTRACTS will be taken over twelve months with protection or this item may be included in an assorted glycerophosphate contract.

MONSANTO SPECIFICATIONS

White powder.
Purity: 90% minimum.
Magnesium (as $MgCl_2$): 0.2% maximum.
Calcium (as CaO): 0.2% maximum.
Magnesium (as $MgSO_4$): 0.2% maximum.
Mineral phosphates: none.
Ash on dry basis: 51.8% minimum.
Magnesium carbonate: trace.

For further information see sheet on glycerophosphates.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto.

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.
J. T. Baker Chemical Co., Phillipsburg, N. J.

0683513

TOWOLDMON0041597
WATER_PCB-00026066

Telegraphic Code:
"Manganese"

MANGANESE GLYCEROPHOSPHATE, N. F. V.

Powder

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots	less
200-lb. bbls. incl., per lb....	$2.50	...	...	...	...
100-lb. kegs incl., per lb....	2.50	2.60	...	...	...
25-lb. boxes incl., per lb...	2.52	2.62	2.67	2.72	...
5-lb. cartons incl., per lb..	2.53	2.63	2.68	2.73	2.78
1-lb. cartons incl., per lb..	2.59	2.69	2.74	2.79	2.84

F.o.b. points: see sheet on glycerophosphates.

CONTRACTS will be taken over twelve months with protection or this item may be included in an assorted glycerophosphate contract.

MONSANTO SPECIFICATIONS

Light pink powder.
Loss on drying: 9½% maximum.
Manganese sulfate: 0.5% maximum.
Manganese chloride: 0.5% maximum.
Mineral phosphates: none.
Purity: 90% minimum.

A form of glycerophosphate preferred by some physicians for administering the glycerophosphate radical and simultaneously administering manganese in an organic form.

The National Formulary provides for a product of 70 to 75% manganese glycerophosphate content only, the remainder being added organic acid. Our product is marketed pure, the addition of acid or other modification being left to the user.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.
J. T. Baker Chemical Co., Phillipsburg, N. J.

0683514

TOWOLDMON0041598
WATER_PCB-00026067

CALCIUM ACID GLYCEROPHOSPHATE

(ACID CALCIUM GLYCEROPHOSPHATE)

Solution 50%

	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots	less
50-lb. carboys extra, per lb..	$1.30	1.40	1.45	...	...
5-lb. bottles incl., per lb....	1.35	1.45	1.50	1.55	1.60

F.o.b. points: see sheet on glycerophosphates.

CONTRACTS will be taken over twelve months with protection or this item may be included in an assorted glycerophosphate contract.

MONSANTO SPECIFICATIONS

Clear yellowish solution.
Strength: 50% minimum.
Calcium sulfate: 0.5% maximum.
Calcium chloride: 0.2% maximum.

The use of this product is confined practically to elixirs and medicinal wines. For further information see the sheet on glycerophosphates.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto.

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.

0683515

TOWOLDMON0041599
WATER_PCB-00026068

ACID GLYCEROPHOSPHORIC

Solution 25%

	1,000-lb. lots	86-lb. lots	43-lb. lots	25-lb. lots	less
43-lb. carboys extra, per lb...	$1.30	1.40	1.45	...	...
5-lb. bottles incl., per lb.....	1.35	1.45	1.50	1.55	1.60

F.o.b. points: see sheet on glycerophosphates.

CONTRACTS will be taken over twelve months with protection or this item may be included in an assorted glycerophosphate contract.

MONSANTO SPECIFICATIONS

Clear, colorless or faintly yellowish solution.
Strength: 25% minimum.
Chlorides (as HCl): 0.1% maximum.
Calcium (as CaO): 0.25% maximum.
Magnesium (as MgO): trace.
Sulfates (as $CaSO_4$): 0.20% maximum.

Glycerophosphoric acid is the basis for the glycerophosphate group of chemicals. Its present use is restricted practically to elixirs and medicinal wines.

To a large extent it can supplant lactic or citric acids in this type of product, where the desirability of the glycerophosphate radical overcomes the difference in price as compared with lactic or citric acids.

AVAILABLE LITERATURE

Folder: Glycerophosphates Monsanto.

COMPETITIVE MANUFACTURERS

Heyden Chemical Corporation, New York.

0683516

TOWOLDMON0041600
WATER_PCB-00026069

Telegraphic Codes:
Crystals—"Acetcrys"
Powder—"Acetpo"
Granulated—"Acetgran"
Aspirgran (Granular)—"Aspirgran"

ACID ACETYL SALICYLIC U. S. P.

(ASPIRIN)

	Bbl. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots
200-lb. bbls. incl., per lb.....	$0.75	...	...	...
100-lb. kegs incl., per lb.....	.75	.75	...	...
25-lb. boxes incl., per lb.....	.76	.76	.77	.78

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan (Dow) whenever it is a competitive selling point.

Acetyl salicylic acid U.S.P. can be supplied in crystals (7-0-1), powder (7-0-2), granular, i. e., Aspir-Gran (7-B-0), granulated (7-A-0), at the same price.

Barrels of powder contains 200 pounds; Aspir-Gran, 225 pounds; crystals, 225 lbs., and granulated, 250 lbs.

Unspecified orders will be filled with the crystals.

CONTRACTS on any form will be taken over twelve months with protection, or this item may be included in an assorted salicylate contract.

MONSANTO SPECIFICATIONS

White crystals or crystalline powder.
Odorless.
Free of sulfates, chlorides, carbonizable and resinous substances.
Free (uncombined) salicylic acid: 0.035% maximum.
Melting point: (U. S. P. test) 132° C. minimum.
Solubility in alcohol: 1:5, complete.
Solubility in 10% solution sodium carbonate: 1:20, complete.
Heavy metals: U.S.P. test, negative.
Purity: essentially 100%.
Fineness: powder: retained by 80 mesh sieve, none.
crystals: retained by 14 mesh sieve, none.
retained by 60 mesh sieve, 20% maximum.
Aspir-Gran retained by 14 mesh sieve, none.
retained by 65 mesh sieve, 75% minimum.

0683517

TOWOLDMON0041601
WATER_PCB-00026070

Acetyl salicylic acid is one of the safest of all medicinal products for human use. It was one of the first synthetic medicinals and is probably one of the most widely used. Despite the introduction of newer remedies the volume of consumption of acetyl salicylic acid is maintained.

It is used as an antipyretic but more generally recommended for its analgesic effect (relief of pain). No authentic cases are on record which prove any untoward physiological effect following the use of this product.

The various forms are described below:

CRYSTALS: Crystals are preferred by some pharmaceutical manufacturers for making their own granulations. There is also a demand for crystals for prescription work.

POWDER: While there is some powder used in prescription work it is largely used by concerns making their own colored granulations.

GRANULATED and ASPIR-GRAN: These two forms are designed to be mixed with dry starch and punched directly without any intermediate granulating. They are also used for mixing with other granulations and with other granulated ingredients for compound tablets.

STARCH GRANULATIONS: These are described on another sheet.

AVAILABLE LITERATURE

Booklet: The Art of Tablet Making Advanced.
Folder: Aspir-Gran.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corp., New York.
Merck & Company, Rahway, N. J.

0683518

TOWOLDMON0041602
WATER_PCB-00026071

Telegraphic Codes:
White Granulations "White"
Pink Granulations "Pink"
Green Granulations "Green"

ACID ACETYL SALICYLIC U. S. P.
(ASPIRIN)

10% STARCH GRANULATION

	250-lb. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots
250-lb. bbls. incl., per lb.	$0.69½	....	....	....
100-lb. kegs incl., per lb.	.69½	.69½	....	....
25-lb. boxes incl., per lb.	.72½	.72½	.73½	.74½

Delivered to, or freight equalized with, St Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan (Dow) whenever it is a competitive selling point.

Starch granulations can be supplied in white (7-A-6), pink (7-A-4), green (7-A-1) at the same price.

Orders must specify color wanted.

Stocks of pink and green granulations are carried only in St. Louis.

CONTRACTS on any color will be taken over twelve months, with protection, or this item may be included in an assorted salicylate contract.

MONSANTO SPECIFICATIONS

Made from acetyl salicylic acid, U. S. P.
Contains: 90% aspirin and 10% starch.
Fineness: 100% through 12 mesh, 95% retained on 50 mesh.

Monsanto starch granulations are "ready to run." The quality and finish of the tablets obtainable are unsurpassed. The colored granulations yield tablets remarkably uniform and free from mottling. Disintegration of the tablets is excellent.

Some tablet manufacturers who make a tablet of gross weight higher than 5.5 grains, add additional starch. The white granulation also lends itself well to including in compound tablets, such as those containing caffeine and acetphenetidin. The latter ingredients are granulated separately, this granulation then mixed intimately with the Monsanto starch granulation.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corp., Midland, Mich.
Merck & Co., Rahway, N. J.

0683519

TOWOLDMON0041603
WATER_PCB-00026072

SODIUM ACETATE U. S. P.

Crystals

	5-bbl. lots	less
300-lb. bbls. incl., per lb	$0.08	.09
Smaller packages, extra, per lb		.11

F.o.b. St. Louis.

Refer inquiries for quantities in excess of two tons to St. Louis for confirmation of delivery.

Refer contract inquiries to St. Louis.

Sodium acetate can be supplied also in anhydrous powder (7-C-2). For price ask St. Louis.

MONSANTO SPECIFICATIONS

White granular crystals.
Odor: None or slightly acetous.
Purity: 99.5% minimum.
Sodium sulfate: 0.05% maximum.
Sodium chloride: 0.05% maximum.
Fineness: 100% through 10 mesh.

Used as a photographic chemical, as a dye intermediate and in nominal amounts by starch manufacturers.

Above prices apply on U. S. P. crystals containing approximately 40% water of crystallization.

AVAILABLE LITERATURE

None.

TOWOLDMON0041604
WATER_PCB-00026073

CHLORAL HYDRATE U. S. P.

Crystals

	1,000-lb. lots	500-lb. lots	100-lb. lots	25-lb. lots	less
100-lb. drums, incl., per lb..	$0.70	.73	.75	...	...
25-lb. bottles incl., per lb..	.73	.76	.78	.80	...
10-lb. bottles incl., per lb..	.75	.78	.80	.82	.85
5-lb. bottles incl., per lb..	.77	.80	.82	.84	.87
1-lb. bottles incl., per lb..	.82	.85	.87	.89	.92

F.o.b. points same as salicylates, q.v.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Colorless transparent crystals.
Chlorides: none.
Alcoholate: organic impurities, none.
Solubility in water: 1:1, complete.
Purity: essentially 100%.

Chloral hydrate is described as a hypnotic. Previously it was used widely as an anti-alcoholic in treatment of the delirium tremens. For this purpose it has been replaced to some extent by some of the newer synthetics. The present uses of chloral hydrate are in compound sedatives, veterinary medicines and in a few instances in embalming fluids.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Merck & Company, Rahway, N. J.

0683521

TOWOLDMON0041605
WATER_PCB-00026074

Telegraphic Codes
Phenolphthalein U.S.P. "Phenolthol"
Phenolphthalein U.S.P. Special "Phenspec"
Phenolphthalein Yellow "Phenycl"

PHENOLPHTHALEIN, U. S. P.

Powder

	2,000-lb. lots	250-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots
	Or on contract				
250-lb. bbls. incl., per lb....	**$0.70**	**.72**	...	...	...
100-lb. kegs incl., per lb....	**.70**	**.72**	**.72**	...	...
50-lb. kegs incl., per lb....	**.71**	**.73**	**.73**	**.74**	...
25-lb. boxes incl., per lb...	**.73**	**.75**	**.75**	**.76**	**.77**

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston, Detroit and **Buffalo.**

PHENOLPHTHALEIN U.S.P. SPECIAL (9-0-3) (an impalpable powder materially finer than the regular U.S.P. product) is particularly adapted for use in agar-paraffin oil emulsions. It is supplied at the same price as the powder.

PHENOLPHTHALEIN YELLOW (not U.S.P.) (9-0-2) is supplied at *5c a pound less* than the U.S.P. product.

Standard packing for the special product (9-0-3)—250-lb. bbls. incl. For the Yellow (9-0-2) 150-lb. bbls. incl. Other packing same as for the regular product.

Unspecified orders will be filled with the regular U.S.P.

CONTRACTS on any form will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

White odorless and tasteless powder.
Fluorane: none.
Arsenic: U.S.P. test, negative.
Heavy metals: U.S.P. test, negative.
Melting point: 259° C. minimum.
Fineness: retained by 100 mesh, none.
Solubility in alcohol: 1:15, complete.

Pharmacologically, phenolphthalein is classed with those drugs which act principally on the colon, inhibiting antiperistalsis and promoting the defecation reflex. To indicate the importance of phenolphthalein it is only necessary to add that the delay in the progressive movement of the intestinal contents incident to constipation occurs mainly in the colon.

0683522

TOWOLDMON0041606
WATER_PCB-00026075

The characteristics of phenolphthalein may be summarized briefly:

1. A specific for constipation.
2. Stimulates the secretions of the intestinal walls, inhibits antiperistalsis, and promotes the defecation reflex.
3. Essentially no absorption; eliminated with the feces without undergoing chemical change.
4. No constitutional effect such as on the circulatory system or kidneys.
5. Palatable; small dose; no nausea; operates with little or no griping.
6. Calls to duty after taking phenolphthalein may be answered conveniently, without haste.
7. No tendency to "after constipation."
8. Continuous administration over a prolonged period does not require increased dosage.
9. Not habit forming.
10. Safe.

Such characteristics cover the requirements for a satisfactory laxative for most cases of acute and for chronic constipation. It would be desirable to have drugs in all classes as well standardized, specific and as dependable as phenolphthalein.

AVAILABLE LITERATURE

Folder: **Phenolphthalein Monsanto.**

Booklet: A Condensed Resumé of the Medicinal Value of Phenolthalein U. S. P.

COMPETITIVE MANUFACTURERS

Chas. Pfizer & Co., New York City.
Kavalco Products, Inc., Nitro, W. Va.
Benzol Products Co., Newark, N. J.

0683523

TOWOLDMON0041607
WATER_PCB-00026076

PHTHALIC ANHYDRIDE MONSANTO

Flakes

	Carload lots	Less than carload lots	Smaller packages
275 lb. bbls. incl., per lb.....	$0.13½	.15	...
Smaller packages extra, per lb.. ...		...	.25

Ex. warehouse New York, Chicago, 1c per lb. extra.
Ex. warehouse San Francisco, 1½c per lb. extra.
Shipments to points west of Denver, 5c per lb. extra.
F.o.b. St. Louis, freight allowed on shipments of barrel lots and over.

Contracts will be taken over twelve months for a definite quantity with protection.

MONSANTO SPECIFICATIONS

White flakes.
Crystallizing point: 131.0° C. minimum.
Solubility in benzene: 1:20, complete.
Purity essentially 100%.

Phthalic anhydride has an almost unlimited number of uses, but the most important ones are as a basis of anthranilic acid; manufacture of anthraquinone and its derivatives; production of diethyl phthalate, a synthetic perfume base; manufacture of dibutyl phthalate, a lacquer plasticiser, and the manufacture of phenolphthalein.

Phthalic anhydride is the foundation of the intermediates dichlorphthalic anhydride and tetrachlor phthalic anhydride, which are used in making numerous dyes. Phthalic anhydride is also attracting attention in the manufacture of synthetic resins, a relatively new use.

Monsanto was the first American manufacturer, beginning in 1916 when the war cut off the supply that we had been importing for the manufacture of a principal product, phenolphthalein. Manufactured primarily for our own use, new applications and increased consumption of phthalic anhydride have given it an important place in our manufacturing program and we are now producing large quantities for sale.

PHTHALIC ANHYDRIDE in flake form was likewise first produced and marketed by Monsanto—in 1926, which form affords considerable economy over the needle crystals in handling and in storage space.

The flakes as well as the melt are pure white.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

COMPETITIVE MANUFACTURERS

The Selden Company, Pittsburgh, Pa.
E. I. DuPont de Nemours & Company, Wilmington, Del.
National Aniline & Chemical Co., New York.

0683524

TOWOLDMON0041608
WATER_PCB-00026077

aRY

MALEIC ACID

Powder

300-lb. bbls. (any quantity) per lb..... $0.35

F.o.b. St. Louis, Mo., freight equalized with Buffalo, N. Y.

CONTRACTS may be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

White or faintly yellowish powder.
Purity: 98.5% minimum.
Solubility in water (4 gms. in 10 c.c.): complete.
Ash: 0.05%.
Iron (as Fe_2O_3): 0.006%.

USES: MALEIC ACID is used in the manufacture of synthetic resins, also to a limited extent in intermediates, and organic chemicals, and as an assistant for dyeing and printing textiles.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

National Aniline & Chemical Co., New York City.

0683525

TOWOLDMON0041609
WATER_PCB-00026078

MALEIC ACID

Crystals

[redacted]-lb. kegs (any quantity), per lb.....$0.35

F.o.b. St. Louis, Mo.

CONTRACTS may be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

White or faintly tinted crystals.
Purity: 97.5% minimum.
Ash: 0.3% maximum.
Iron: 0.006% Fe_2O_3 maximum.

USES: MALEIC ACID is used in the manufacture of synthetic resins, also to a limited extent in intermediates, and organic chemicals, and as an assistant for dyeing and printing textiles.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

National Aniline & Chemical Co., New York City.

0683526

TOWOLDMON0041610
WATER_PCB-00026079

Telegraphic Code:
"Santoms"

SANTOLITE M-S

	1,000-lb. lots	less
250-lb. tins inclusive, per lb.	$0.45	.50
Smaller packages, extra, per lb.		.50

F.O.B. St. Louis.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Practically colorless, thick, viscous resin.

Solubilities at 20-25° C.

Acetone, Benzene, Toluene, Butyl Acetate	4 parts Santolite M-S in 1 part solvent
Ethyl Alcohol	1 part Santolite M-S in 1 part solvent
V.M.P. Naphtha	Insoluble

***Retentivity:**

Acetyl Cellulose 200%.
Nitro Cellulose 200%.

*By retentivity is meant the amount of Santolite which can be incorporated in the film with respect to the amount of cellulose ester present. Retentivity is expressed as percentage calculated from the formula:

$$\frac{\text{Weight Santolite}}{\text{Weight Cellulose Ester}} \times 100$$

Santolite M-S is a condensation product of formaldehyde and aromatic sulfonamides. It is very light in color, grading essentially as water-white, as interpreted in the resin market.

It is unique in that it is compatible with both nitrocellulose and acetyl cellulose. This is a quality seldom found in resins.

Santolite M-S is apparently of value in imparting moisture resisting properties to sheeting of the cellophane type. It has a use in the Textile Industry.

AVAILABLE LITERATURE

None.

(Supersedes price sheet of 3/27/31)

0683527

TOWOLDMON0041611
WATER_PCB-00026080

Telegraphic Code:
"Santomhp"

SANTOLITE M-H-P

	1,000-lb. lots	less
100-lb. kegs inclusive, per lb	$0.45	.50
Smaller packages, extra, per lb		.50

F.O.B. St. Louis.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Hard, resin-like lumps, practically colorless.
Melting point: 62° C. (initial).

Solubilities at 20-25° C.

Acetone, Benzene, Toluene, Butyl Acetate — 4 parts Santolite M-H-P in 1 part solvent
Ethyl Alcohol....1 part Santolite M-H-P in 1 part solvent
V.M.P. Naphtha..Insoluble

***Retentivity:**

Acetyl Cellulose 100%.
Nitro Cellulose 100%.

*By retentivity is meant the amount of Santolite which can be incorporated in the film with respect to the amount of cellulose ester present. Retentivity is expressed here as percentage calculated from the formula:

$$\frac{\text{Weight Santolite}}{\text{Weight Cellulose Ester}} \times 100$$

Santolite M-H-P is a condensation product of formaldehyde and aromatic sulfonamides. It is very light in color, grading essentially as water-white, as interpreted in the resin market.

It is unique in that it is compatible with both nitrocellulose and acetyl cellulose. This is a quality seldom found in resins.

Santolite M-H-P is used in some specialty lacquer formulas which have been developed by individual manufacturers, who keep their specific application secret.

AVAILABLE LITERATURE

None.

(Supersedes price sheet of 3/27/31)

0683528

TOWOLDMON0041612
WATER_PCB-00026081

COUMARIN MONSANTO

Fine Crystals

	100-lb. lots	50-lb. lots	25-lb. lots	5-lb. lots	less
25-lb. cans incl., per lb.....	$3.60	3.65	3.75	...	...
10-lb. cans incl., per lb.....	3.60	3.65	3.75	...	...
5-lb. cans incl., per lb.....	3.60	3.65	3.75	3.85	...
1-lb. cans incl., per lb.....	3.75	3.80	3.90	4.00	4.00
1-oz. cans incl., per lb.....	4.10	4.15	4.25	4.35	4.50

500 pound lots or over refer to St. Louis for price.

F.o.b. St. Louis, Chicago, New York, San Francisco, Los Angeles, Seattle, St. Paul. Transportation allowed to Cincinnati, Detroit, Indianapolis, New Orleans, Spokane, Portland, Tacoma.

Coumarin can also be supplied in large crystals (11A) at 10 cents per pound extra.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

White prismatic crystals.
Odor: characteristic.
Melting point: 68° to 70° C.
Solubility in alcohol: 1:10, complete.
Melt: water white; solidified, practically water white.
Meets requirements of N. F. V.

It is generally conceded that the commercial coumarin available today is one of the purest chemicals known. The synthetic product almost entirely has replaced the coumarin obtained from the tonka bean and deer tongue.

Coumarin was first discovered in tonka beans along about 1820; almost seventy-five years followed before it was synthetically produced on a commercial scale. Today it is an important flavor and odor principle used separately and in conjunction with vanillin.

Many perfumers and soap makers use coumarin to lend a pleasant aroma to their products, and food flavoring manufacturers use this popular odor principle to amplify the delicate taste of vanillin.

Monsanto was the first American manufacturer of coumarin, and after years of painstaking research and careful plant control, our product is of a very high character. COUMARIN MONSANTO is preferred by the largest and most discriminating buyers on account of its true aroma, pure white color and its excellent rate of solubility.

AVAILABLE LITERATURE

Folder: Coumarin Monsanto.
Folder: Price Trend of Coumarin.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
The Mathieson Alkali Works, Inc., New York.
Maywood Chemical Works, Maywood, N. J. (Dodge & Olcott, selling agents).

0683529

TOWOLDMON0041613
WATER_PCB-00026082

Telegraphic Code:
"Tricresyl"

TRICRESYL PHOSPHATE

Standard packing, 55 gal. drums extra. (Approx. 500 lbs.)

	100,000-lb. lots	50,000-lb. lots	25,000-lb. lots	5,000-lb. lots	less
CONTRACT, per lb.	.23	.23½	.24	.24½	.25½
SPOT, carlots, per lb.	.25½	.25½	....	....	....
drum lots, per lb.	....	....	.27½	.27½	.27½
Less than drums, packing extra	....	....	....	....	.32½

F.O.B. St. Louis freight allowed to destination.

CONTRACTS will be taken over twelve months with price protection.

TERMS: 1% 10 days, 30 days net, where credit is approved.

*55 gal. drums charged extra at $10.00, returnable for full credit under usual conditions.

MONSANTO SPECIFICATIONS

Clear, practically colorless liquid.
Purity: 99% minimum.
Odor: None.
Solution in Benzene 1:1: Clear.
Specific Gravity at 20° C.: 1.175.
Acidity: Neutral.
Alkalinity: Neutral.
Phenols: 0.025% maximum.

USES: As a plasticizer in Cellulose Ester, lacquers and varnishes.

TRICRESYL PHOSPHATE was first developed as a substitute for camphor in the plasticizing of cellulose nitrate, *i.e.*, celluloid. Its use in lacquer formulas was developed as pyroxylin lacquers themselves increased in use. It has considerable solvent power for most of the resins used, as well as for nitrocellulose itself. It imparts to lacquer—toughness, flexibility, adhesiveness and gloss. In the case of automobile finishes particularly it is desirable for the gloss it imparts; the other qualities being obtainable with competing plasticizers.

Toughness of a film should be distinguished from hardness, and **TRICRESYL PHOSPHATE** imparts a high degree of each, so that a lacquer film containing it wears well and is not readily cut by sand or other abrasive materials.

0683530

TOWOLDMON0041614
WATER_PCB-00026083

Telegraphic Code:
"Altai"

TRIPHENYL PHOSPHATE FLAKES

Contracts Over Twelve Months	20,000 lbs. and over		less
175-lb. bbls. incl., per lb.	**$0.35**		.37
Spot Shipments	2,000 lbs. and over	175 lbs. and over	less
175-lb. bbls. incl., per lb.	**$0.37**	.39	.35

F.o.b. St. Louis, freight allowed.

CONTRACTS will be taken over twelve months with protection.

TERMS: 1% 10 days, 30 days net, where credit is approved.

MONSANTO SPECIFICATIONS

White flakes.
Odor: Faintly aromatic.
Purity: 99.0% minimum.
Melting point: 48.5° C. minimum.
Solubility in alcohol (10 grams in 50 c.c.): Complete.
Phenol: 0.1% maximum.
Acidity (as H_3PO_4): 0.003% maximum.
Iron: (as Fe): 0.001% maximum.
Permanganate Test: Distinct purple color to persist after thirty minutes.

USES: TRIPHENYL PHOSPHATE is used in conjunction with the esters of cellulose acetate and cellulose nitrate. Its principal industrial application is as a plasticizer and fire retardant in the manufacture of cellulose acetate film and molding composition. It is also used as a fixative in the perfumery arts.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Dow Chemical Co., Midland, Mich.
Kavalco Products, Inc., Nitro, W. Va.
Kuttroff-Pickhardt & Co., New York (Importers).
Rhodia Chemical Co., New York (Importers).

0683531

TOWOLDMON0041615
WATER_PCB-00026084

Telegraphic Code:
"Acetanilid"

ACETANILID U. S. P.

	2,000-lb. lots	200-lb. lots	100-lb. lots	less
175-lb. bbls. incl., per lb.	$0.21	.22	...	...
100-lb. kegs incl., per lb.	.22	.23	.23	...
50-lb. kegs incl., per lb.	...	...	.25	.25
25-lb. fibre boxes incl., per lb.	...	...	.27	.27

Contracts will be taken for a twelve month period with price protection at above schedules.

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

MONSANTO SPECIFICATIONS

White powder.
Melting point: 114° C. minimum.
Aniline Salts: none.
Organic Impurities: U. S. P. test, none.
Solubility in alcohol 1:4: Complete.
Ash: 0.05%, maximum.
Fineness—Retained by 80 mesh—none.

Acetanilid is one of the oldest products used for allaying fever and for relieving pain.

The whiteness and excellent solubility of Monsanto Acetanilid indicate its purity and the care with which it is made.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Citro Chemical Co., Maywood, N. J.
Maywood Chemical Works, Maywood, N. J.
Merck & Company, Rahway, N. J.
New York Quinine & Chemical Works, Brooklyn, N. Y.
* Crown Chemical Company, Bound Brook, N. J.
* Sherwin-Williams Company, Chicago Plant.
Kavalco Co., Nitro, W. Va.

* Technical only.

0683532

TOWOLDMON0041616
WATER_PCB-00026085

Corrected
June 21, 1927

CHLORAMINE U. S. P.

Crystalline Powder

	225-lb. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots	less
225-lb. bbls. incl., per lb....	$1.50	...	...	...	..
100-lb. kegs incl., per lb.....	1.50	1.50	...	...	...
50-lb. kegs incl., per lb....	1.50	1.50	1.75	...	..
25-lb. boxes incl., per lb....	1.50	1.50	1.75	2.00	...
5-lb. cartons incl., per lb.	1.60	1.60	1.85	2.10	2.50

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Chloramine can be supplied also granular, (17G) very fine powder, or large crystals (17L) at 10c per pound extra.

CONTRACTS on any form will be taken over twelve months with protection.

Unspecified orders will be filled with the crystalline powder.

MONSANTO SPECIFICATIONS

A white or faintly yellow crystalline powder.
Odor: slightly chlorous.
Loss on drying: 18-20%.
Available chlorine: 12.25% minimum.
Free alkalinity as (NaOH): 0.10% maximum.
Solubility in water: 1-50, clear.

Chloramine, a water soluble chlorine bearing powder, differs from all similar compounds.

1. In germicidal power it exceeds (in most applications greatly) the older familiar products—phenolic compounds, bichloride of mercury, iodine, etc.
2. Non-irritating—tissue repair is not retarded.
3. Stable—the action is gradual and prolonged, frequent dressing is therefore not necessary.
4. Uniform—a definite chemical compound, therefore of dependable action.
5. Non-toxic—no danger when left within the reach of children or unsuspecting adults.
6. Deodorant—ideal for personal hygiene.
7. Convenient to carry and to use.

AVAILABLE LITERATURE

Folder: Chloramine Monsanto.
Booklet: Use and Properties of Chloramine.
Booklet: Notes on the Manufacture of Chloramine Tablets.

0683533

TOWOLDMON0041617
WATER_PCB-00026086

DICHLORAMINE U. S. P.

Crystals

	1,000-lb. lots	100-lb. lots	25-lb. lots	10-lb. lots	less
100-lb. kegs incl., per lb.....	$2.75	3.25	...	...	...
5-lb. bottles incl., per lb...	2.80	3.30	3.80	4.05	4.55

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

CONTRACTS on this item will not be taken.

Dichloramine is not carried in stock but is made after order is received. Two weeks to one month is required.

MONSANTO SPECIFICATIONS

Slightly yellow crystals.
Odor: chlorous.
Melting point: 80°-82° C.
Solubility: in benzene, chloroform, chlorcosane, clear.
Active chlorine: 29.25% minimum.

A very active germicide, the use of which is confined to the treatment of infections under direction of the physician, as during hospitalization.

Due to its great activity it decomposes after long storage and consequently is manufactured only on order as indicated above.

AVAILABLE LITERATURE

Booklet: Uses and Properties of Chloramine.

0683534

TOWOLDMON0041618
WATER_PCB-00026087

Corrected
June 21, 1927

HALAZONE

Powder

	500-lb. lots	100-lb. lots	10-lb. lots	less
5-lb. bottles incl., per lb.....	$2.80	3.05	3.15	3.30

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

White powder.
Odor: chlorous.
Active chlorine: 24%-26%.
Melting point: 180°-190° C.

Halazone is a chlorine-bearing product used largely for sterilizing doubtful water supplies of armies, explorers, prospectors, campers and others exposed to infection through forced dependence on impure water.

It will sterilize polluted water in fifteen minutes when added in the proportion of one part to 300,000. Usually offered to the consumer in the form of tablets made with the addition of sodium carbonate or sodium borate, or both, this addition being for the purpose of increasing solubility.

AVAILABLE LITERATURE

Booklet: Uses and Properties of Chloramine.

0683535

TOWOLDMON0041619
WATER_PCB-00026088

Corrected
June 21, 1927

CHLORCOSANE U. S. P.

(CHLORINATED PARAFFIN)

Oil

	1,000-lb. lots	500-lb. lots	100-lb. lots	less
100-lb. carboys extra, per lb.	$0.45	.47	.50	.60
5-lb. bottles incl., per lb.	.50	.52	.55	.65

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Light yellow oil.
Odorless and tasteless.
Specific gravity: 1.04 at 25° C.
Reaction of water extract to litmus: neutral.
Chlorides: none.
Free chlorine: none.
Unchlorinated paraffin: negative (U.S.P. test).

A solvent for dichloramine.

AVAILABLE LITERATURE

Booklet: Use and Properties of Chloramine.

0683536

TOWOLDMON0041620
WATER_PCB-00026089

CHLORAMINE TECHNICAL

(CRYSTALLINE POWDER)

	5 bbl. lots (1,125 lbs.)	Single bbls. (225 lbs.)	100-lb. lots	25-lb. lots	5-lb. lots
250-lb. bbls. per lb. incl.	$0.60	.62	...	...	...
100-lb. drums, per lb. incl.	...	...	.65	...	...
25-lb. boxes, per lb. incl.	...	...	...	.75	...
5-lb. cartons, per lb. incl.	...	...	...	...	1.00

F.o.b. St. Louis.

CONTRACTS will be taken over twelve months with protection, but the prices apply to shipments in the amount indicated *at one time.*

MONSANTO SPECIFICATIONS

Yellowish Powder.
Odor: Slightly chlorous.
Active chlorine: 10.0% minimum, 10.2% maximum.

This is a technical (not refined) form of chloramine intended only for technical application. Its present use is confined largely to bleaching operations.

AVAILABLE LITERATURE

None.

0683537

TOWOLDMON0041621
WATER_PCB-00026090

Telegraphic Code:
"Benzoic"

BENZOIC ACID U. S. P.

	10,000 lbs.	5,000 to 9,900 lbs.	2,000 to 4,900 lbs.	100 to 1,900 lbs.	less
100-lb. bbls. incl., per lb.	$0.47	.48	.49	.50	...
50-lb. fibre drums incl., per lb.	.48	.49	.50	.51	.52
25-lb. fibre drums incl., per lb.	.49	.50	.51	.52	.53

F.O.B. any point where stocks are carried. Freight allowed to any destination on quantities of 100 lbs. and over.

CONTRACTS taken for twelve months on 100 lbs. and over, with price protection, but must be booked at the quantity schedules applicable to customers' actual withdrawals. If purchases during twelve months against such contracts, are in excess of the quantity originally booked, and equal or exceed the quantity in the next bracket for which a lower price is provided, a retroactive refund, based upon the larger amount, will be made.

SPECIAL NOTE: Refer to St. Louis for special price all inquiries from consumers of more than 10,000 lbs.

MONSANTO SPECIFICATIONS

Pure white powder or plate-like crystals.
Odor: None.
Melting Point: 122.5° C. Min.
Purity: 99.5% Min. (dry basis).
Solubility in water 1:275: Clear at 25° C.
Alcohol 1:2.3: Clear at 25° C.
Organic Chlorine: None.
Nitro Compounds: None.

USES: For preserving food products, especially fruit juices, fruit syrups and margarine. It is also used for preserving chewing gum, plug and cigarette tobacco, and such products as pastes and medicinal preparations. As an intermediate for certain dyestuffs.

AVAILABLE LITERATURE

Leaflet: Benzoic Acid U.S.P. Improved.
Sodium Benzoate U.S.P. Improved.

COMPETITIVE MANUFACTURERS

Carus Chemical Co., LaSalle, Ill.
E. I. duPont de Nemours & Co., Wilmington, Del.
Heyden Chemical Corp., New York City.
Hooker Electro Chemical Co., New York City.
Seydel Mfg. Co., Jersey City, N. J.

0683538

TOWOLDMON0041622
WATER_PCB-00026091

Telegraphic Code:
"Benzoicech"

BENZOIC ACID TECHNICAL

	10,000 lbs. and over	less
100-lb. bbls. incl., per lb	$0.39	.40

F.O.B. St. Louis, freight allowed on 100 lbs. and over.

CONTRACTS taken over twelve months with protection.

MONSANTO SPECIFICATIONS

This "Technical" product tests slightly under our specifications for the U.S.P. on color, solubility and Phthalic Acid.

See Monsanto specifications BENZOIC ACID U.S.P.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Carus Chemical Co., LaSalle, Ill.
E. I. duPont de Nemours & Co., Wilmington, Del.
Heyden Chemical Corp., New York City.
Hooker Electro Chemical Co., New York City.
Seydel Chemical Co., Jersey City, N. J.

0683539

TOWOLDMON0041623
WATER_PCB-00026092

Telegraphic Code:
"Benzoate"

BENZOATE OF SODA U. S. P.

	10,000 lbs.	5,000 to 9,900 lbs.	2,000 to 4,900 lbs.	100 to 1,900 lbs.	less
100-lb. bbls. incl., per lb.	$0.30	.40	.41	.42	...
50-lb. fibre drums incl., per lb.	.41	.42	.43	.44	.45
25-lb. fibre drums incl., per lb.	.43	.44	.45	.46	.47

F.O.B. any point where stocks are carried. Freight allowed to any destination on quantities of 100 lbs. and over.

CONTRACTS taken for twelve months on 100 lbs. and over, with price protection, but must be booked at the quantity schedules applicable to customers' actual withdrawals. If purchases during twelve months against such contracts, are in excess of the quantity originally booked, and equal or exceed the quantity in the next bracket for which a lower price is provided, a retroactive refund based upon the larger amount will be made.

SPECIAL NOTE: Refer to St. Louis for special price all inquiries from consumers of more than 10,000 lbs.

Sodium Benzoate U.S.P. can be supplied also in flake form—which is slightly more soluble than the powder—at the same price.

MONSANTO SPECIFICATIONS

Fine white powder or flakes.

Odor: None.

Purity: 99.5% Minimum (Dry Basis).

Solubility in water 1:1 8: Clear, colorless at 25° C.
Alcohol 1:61: Clear at 25° C.

Organic Chlorine: None.

Nitro Compounds: None.

Benzoate of Soda is used for preserving food products, especially fruit juices, fruit syrups and margarine. It is also used for preserving chewing gum, plug and cigarette tobacco, and such products as pastes and medicinal preparations.

AVAILABLE LITERATURE

Leaflet: Benzoic Acid, U.S.P. Improved.
Sodium Benzoate U.S.P. Improved.
Preserving with Sodium Benzoate.

COMPETITIVE MANUFACTURERS

Carus Chemical Co., LaSalle, Ill.
E. I. duPont de Nemours & Co., Wilmington, Del.
Heyden Chemical Corp., New York City.
Hooker Electro Chemical Co., New York City.
Seydel Mfg. Co., Jersey City, N. J.

0683540

TOWOLDMON0041624
WATER_PCB-00026093

Telegraphic Code:
"Benzoatech"

SODIUM BENZOATE TECHNICAL

	10,000 lbs. and over	less
100-lb. bbls. incl., per lb	$0.34	.35

F.O.B. St. Louis, freight allowed on 100 lbs. and over.

CONTRACTS taken over twelve months with protection.

MONSANTO SPECIFICATIONS

White or slightly tinted powder.

Purity: 99% minimum (Dry basis).

Odor: None.

Solubility in water: 1:1.8 (Essentially completely soluble, but slightly inferior to U.S.P. quality).

Organic Chlorine: None.

Nitro Compounds: None.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Carus Chemical Co., LaSalle, Ill.
E. I. duPont de Nemours & Co., Wilmington, Del.
Heyden Chemical Corp., New York City.
Hooker Electro Chemical Co., New York City.
Seydel Chemical Co., Jersey City, N. J.

0683541

TOWOLDMON0041625
WATER_PCB-00026094

SALOL U. S. P.

Crystals

	150-lb. lots or on contract	100-lb. lots	50-lb. lots	25-lb. lots
150-lb. bbls. incl., per lb.	$0.90	...	...	...
100-lb. kegs incl., per lb.	.90	.90	...	...
25-lb. boxes incl., per lb.	.91	.91	.92	.93

Delivered to, or freight equalized with St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan (Dow) whenever it is a competitive selling point.

Salol can be supplied in powder (19-0-1) at 10c per pound extra.

CONTRACTS on any form will be taken over twelve months with protection or this item may be included in an assorted salicylate contract.

Unspecified orders will be filled with crystals.

MONSANTO SPECIFICATIONS

Small white crystals.
Odor: characteristic, aromatic.
Phenol: none.
Free salicylic acid: none.
Sulfates: none.
Chlorides: none.
Melting point: 41-43° C.
Solubility in alcohol: 1:6 complete.

Salol, chemically, is phenylsalicylate. In the small intestine it is broken up by the pancreatic juice and yields about thirty-six per cent of phenol and sixty-four per cent of salicylic acid. The completeness and rapidity of this action depends upon the amount of salol ingested and the alkalinity of the juice in the intestines. The change is, however, sufficient, when salol is freely given, for the production of salicylic acid intoxication. Because this change occurs in the intestines somewhat slowly, the remedy has been used as an internal antiseptic in the treatment of enteritis and intestinal fermentation. It is also used as a surgical dusting powder on the basis that it will slowly be decomposed by the wound secretions, liberating its antiseptic constituents.

AVAILABLE LITERATURE

Folder: Monsanto Salicylates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Heyden Chemical Corporation, New York.
Merck & Company, Rahway, N. J.

0683542

TOWOLDMON0041626
WATER_PCB-00026095

METHYL SALICYLATE MONSANTO

(SYNTHETIC OIL OF WINTERGREEN)

Oily Liquid

	500-lb. lots or on	100-lb. lots contract	50-lb. lots	25-lb. lots	less
500-lb. drums extra, per lb...	$0.40	...	...	...	...
100-lb. carboys extra, per lb..	.42	.42	...	...	...
50-lb. cans incl., per lb.....	.42	.42	.42	...	...
25-lb. cans incl., per lb.....	.43	.43	.43	.43	...
5-lb. c.b. incl., per lb.....	.48	.48	.49	.49	.50
1-lb. c.b. incl., per lb.....	.53	.53	.54	.54	.55
¼-lb. c.b. incl., per lb.....	.76	.76	.78	.78	.79

Delivered to, or freight equalized with, St. Louis, Chicago, New York or Philadelphia.

Freight allowed to, but not equalized with, Albany, Baltimore, Boston and Detroit.

Freight equalized with Midland, Michigan, whenever it is a competitive selling point.

CONTRACTS will be taken over 12 months with protection or this item may be included in an assorted salicylate contract. On contracts for 10,000 lbs. or more, the maximum must not exceed the minimum by more than 15% of the minimum.

MONSANTO SPECIFICATIONS

Colorless liquid.
Odor: characteristic; pure, sweet.
Specific gravity at 25° C.: 1.180-1.185.
Solubility in alcohol: 1:7, complete.
Solubility in 10% solution caustic potash: 1.20, complete.
Heavy metals: negative.

The popularity of the characteristic odor and flavor of oil of wintergreen predestined its manufacture synthetically. Synthesized thirty years ago, or more, methyl salicylate today is well established in commerce. Manufacture is carried on an extensive scale.

METHYL SALICYLATE MONSANTO is well known by the consuming trade and is preferred by discriminating buyers on account of its excellent qualities. It is a clear, water-white liquid and weighs nearly ten pounds to the gallon. It boils at 222° C. and becomes solid at minus 8° C. The odor and flavor is char-

TOWOLDMON0041627
WATER_PCB-00026096

MANICURE LACQUER

(PEARL ESSENCE)
Anderson 1732

Standard Packages

*50-gallon steel drum (drums extra), per gallon	$9.50
5-gallon cans incl., per gallon	9.60
1-gallon cans incl., per gallon	9.80

F.o.b. Boston, Mass. Freight allowed on 50-gallon drums east of Mississippi River.

*Drums extra—50-gallon, $15.00, returnable for full credit under usual conditions.

TERMS: 1% 10 days or 30 days net.

CONTRACTS may be written for 12 months without protection against decline.

USE: A very high grade Fingernail Lacquer with a delicate tint and pearl essence finish.

DISTRIBUTION: Manufacturers and dealers of cosmetics and toilet preparations.

COMPETITIVE MANUFACTURERS

U. S. Industrial Chemical Co., Baltimore Md.
Van Schaack Bros., Chemical Works, Chicago, Ill.

0683544

TOWOLDMON0041628
WATER_PCB-00026097

MANICURE LACQUER

ANDERSON R-2026

*50-gallon steel drum (drums extra), per gal.....$1.85
5-gallon cans incl., per gal..... 1.95
1-gallon cans, incl., per gal..... 2.15

F. O. B. Everett, Mass. Freight allowed on 50 gallons or more, east of Mississippi River.

TERMS: 1% 10 days or 30 days net.

CONTRACTS may be written for 12 months without protection against decline.

*Drums extra—50 gallon, $15.00, returnable for full credit under usual conditions.

USE: A high gloss finger nail polish with excellent wearing qualities and pleasant odor. It deposits a very smooth film.

In respect to odor and film deposited, it is SUPERIOR to R-1518.

Furnished in clear, natural, and rose colors.

DISTRIBUTION: Manufacturers and dealers of cosmetics and toilet preparations.

COMPETITIVE MANUFACTURERS

U. S. Industrial Chemical Co., Baltimore, Md.
Van Schaack Bros. Chemical Works, Chicago.

NOTE: This is a product of the Anderson Division of Merrimac Chemical Co.

0683545

TOWOLDMON0041629
WATER_PCB-00026098

Telegraphic Code:
"Lacqfive"

MANICURE LACQUER

PEARL ESSENCE

Anderson R-2091

*50-gal. drums extra, per gal	$7.00
5-gal. cans incl., per gal	7.10
1-gal. cans incl., per gal	7.30

F.O.B. Boston, Mass. Freight allowed on 50 gallons or more east of the Mississippi River.

*Drums extra—50 gallon, $15.00, returnable for full credit under usual conditions.

TERMS: 1% 10 days or 30 days net.

CONTRACTS may be written for 12 months without protection against decline.

USE: This lacquer gives a very high gloss, has excellent wearing qualities, deposits a very smooth film. It has a more pleasant odor than Pearl Essence R-1732, which it replaces. It is furnished in Clear, Natural and Rose colors.

DISTRIBUTION: Manufacturers and dealers of cosmetics and toilet preparations.

COMPETITIVE MANUFACTURERS

U. S. Industrial Chemical Co., Baltimore, Md.
Van Schaack Bros. Chemical Works, Chicago, Ill.

0683546

TOWOLDMON0041630
WATER_PCB-00026099

MANICURE LACQUERS

ANDERSON R-1464

Standard Packages

*50-gallon steel drum (drums extra), per gallon	$1.25
5-gallon cans incl., per gallon	1.35
1-gallon cans incl., per gallon	1.55

F.O.B. Everett, Mass. Freight allowed on 50 gallons or more east of Mississippi River.

*Drums extra—50 gallon, $6.00, returnable for full credit under usual conditions.

TERMS: 1% 10 days or 30 days net.

CONTRACTS may be written for 12 months without protection against decline.

USE: A medium priced fingernail polish with medium gloss and good wearing qualities. Furnished in "Clear," "Natural" and "Rose" colors.
(For a higher gloss polish with excellent wearing qualities, see Anderson R-1518.)

DISTRIBUTION: Manufacturers and dealers of cosmetics and toilet preparations.

COMPETITIVE MANUFACTURERS

U. S. Industrial Chemical Co., Baltimore, Md.
Van Schaack Bros. Chemical Works, Chicago, Ill.
Note: This is a product of the Anderson Division of Merrimac Chemical Co.

0683547

TOWOLDMON0041631
WATER_PCB-00026100

MANICURE LACQUERS

ANDERSON R-1518

Standard Packages

*50-gallon steel drum (drums extra), per gallon	$1.85
5-gallon cans incl., per gallon	1.95
1-gallon cans incl., per gallon	2.15

F.O.B. Everett, Mass. Freight allowed on 50 gallons or more east of Mississippi River.

*Drums extra—50 gallon, $6.00, returnable for full credit under usual conditions.

TERMS: 1% 10 days or 30 days net.

CONTRACTS may be written for 12 months without protection against decline.

USE: A high gloss fingernail polish with excellent wearing qualities. Furnished in "Clear," "Natural" and "Rose" color.
(See Anderson R-1464 for a medium price polish, with medium gloss and good wearing qualities.)

DISTRIBUTION: Manufacturers and dealers of cosmetics and toilet preparations.

COMPETITIVE MANUFACTURERS

U. S. Industrial Chemical Co., Baltimore, Md.
Van Schaack Bros. Chemical Works, Chicago, Ill.
Note: This is a product of the Anderson Division of Merrimac Chemical Co.

0683548

TOWOLDMON0041632
WATER_PCB-00026101

MANICURE LACQUER REMOVER

ANDERSON B-420

Standard Packages

*50-gallon drum (drums extra), per gallon	**$1.00**
5-gallon cans incl., per gallon	**1.10**
1-gallon cans incl., per gallon	**1.30**

F.O.B. Everett, Mass. Freight allowed on 50 gallons or more east of Mississippi River.

*Drums extra—50 gallon, $6.00, returnable for full credit under usual conditions.

TERMS: 1% 10 days or 30 days net.

CONTRACTS may be written for 12 months without protection against decline.

USE: This solvent or lacquer remover is sold in conjunction with the sale of Fingernail Lacquers. (See Anderson R-1464 and R-1518.)

DISTRIBUTION: Manufacturers and dealers of cosmetics and toilet preparations.

COMPETITIVE MANUFACTURERS

U. S. Industrial Chemical Co., Baltimore, Md.
Van Schaack Bros. Chemical Works, Chicago, Ill.
Note: This is a product of the Anderson Division of Merrimac Chemical Co.

0683549

TOWOLDMON0041633
WATER_PCB-00026102

CAUSTIC SODA

(Liquid)

Tank cars, approximate net weight—35 to 50 tons.

Sold on basis of 76% (Na_2O) content.
F.o.b. Monsanto, Ill.

All inquiries should be referred to St. Louis.

MONSANTO SPECIFICATIONS

Appearance: Practically clear, colorless or slight yellowish or greenish tinge.
Iron (as Fe): 0.007% maximum.
NaOH content: 47.00—50.00%.
NaCl: 1.50% maximum.
Na_2CO_3: 1.00% maximum.
Copper (as Cu): 0.0005% maximum.

Derivation: By electrolysis of sodium chloride solution.
Uses: Petroleum refining, vegetable oil refining, tanning, soap industry, textile industry (mercerizing, etc.), sodium salts, medicine, and rubber industry.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Belle Alkali Co., Belle, W. Va.
Columbia Chemical Co., Barberton, Ohio.
Diamond Alkali Co., Pittsburgh, Pa.
Dow Chemical Co., Midland, Michigan.
E. B. Gas Co., Niagara Falls, N. Y.
Great Western Electrochemical Co., San Francisco, Calif.
Hooker Electrochemical Co., Niagara Falls, N. Y.
Mathieson Alkali Works, Niagara Falls, N. Y.
Michigan Alkali Co., Menominee, Mich.
Niagara Alkali Co., Niagara Falls, N. Y.
Pennsylvania Salt Mfg. Co., Pittsburgh, Pa.
Solvay Co., Detroit, Mich.
Westvaco Chlorine Products Co., Charleston, W. Va.

TOWOLDMON0041634
WATER_PCB-00026103

CHLORSULFONIC ACID

Liquid

	Car lots	5 drum lots	1 drum lots	100-lb. lots	less
Tank cars, approximate net weight 100,000 lbs., per lb.	$0.04	..	..	..	..
110-gal. drums extra, approximate net weight 1,350 lbs., per lb.	.04½	.05	.05½	..	..
1-lb. g.b. incl., per lb.	..	..	..	.23	.25

F.o.b. Monsanto, Illinois.

CONTRACTS will be taken over twelve months without protection.

For dye manufacturers only; refer all other inquiries to St. Louis.

MONSANTO SPECIFICATIONS

Brownish liquid.
Specific gravity: 1.74 to 1.75 at 15° C.
Chlorosulfonic acid: 98.5% minimum.
Hydrochloric acid (free): 0.5% maximum.
Sulfur trioxide (SO_3): 1.00% maximum.
Sulfur dioxide (SO_2): a trace.

Used for chlorsulfonation. This product has a limited use as a dye intermediate.

AVAILABLE LITERATURE

None.

0683551

TOWOLDMON0041635
WATER_PCB-00026104

SANTOTAN-S

(Crystals)

	Carload lots	Less than carload lots
100-lb. bags incl., per lb	$0.05	.05½

F.o.b. St. Louis.

CONTRACT inquiries should be referred to St. Louis.

MONSANTO SPECIFICATIONS

(Approximate)

Deep green crystals.
Cr_2O_3 (equivalent) 24%.
Basicity: 106 (Proctor)
Solubility in water: Complete.

Santotan-S is a basic chrome sulfate crystal, corresponding with the general formula:

$Cr_2(SO_4)_2(OH)_2$.

It is completely soluble in water, giving an easily prepared one-bath chrome tanning liquor of uniform composition. It is used in the tanning of calf, cow and horse hides for the manufacture of upper shoe leathers. It is similar to other basic chrome sulfate crystals, and is used in like proportion, *i. e.*, from 6% to 8% of the weight of the pickled skins.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Martin-Dennis Company, Newark, N. J. (product) the Tanolins.
Rohm & Haas, Philadelphia, Pa. (product) Koreon.

0683552

TOWOLDMON0041636
WATER_PCB-00026105

MONOCHLORBENZENE

Liquid

	1,100-lb. lots	550-lb. lots	less
1,100-lb. drums extra, per lb.			
550-lb. drums extra, per lb.			
Smaller packages extra, per lb.			

F.o.b. Monsanto, Illinois.

All inquiries should be referred to St. Louis.

MONSANTO SPECIFICATIONS

Material is furnished to meet individual requirements.

Used as a solvent. Also in the manufacture of orthonitrochlorbenzene and paranitrochlorbenzene, the intermediate dinitrochlorbenzene, which is used in the manufacture of Sulfur Blacks and Browns, and also numerous other intermediates which are the basis of several types of sulfur colors, explosives and poison gases.

The chlorine used in chlorinating the benzene is Monsanto manufactured. As concomitant products, we obtain orthodichlorbenzene and paradichlorbenzene.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Mich.
Hooker Electrochemical Co., New York.
Niagara Alkali Works, Niagara Falls, New York.

0683553

TOWOLDMON0041637
WATER_PCB-00026106

ORTHENE

(ORTHODICHLORBENZENE)

Liquid

	500-lb. lots	50-lb. lots	less
550-lb. drums,* extra, per lb.	$0.06	...	...
50-lb. cans incl., per lb.	.08	.09	...
Smaller packages extra, per lb.	.10	.10	.10

F.o.b. Monsanto, Ill. freight allowed on shipments of 100 lbs. and over to all domestic points.

*These are tin lined drums, charged at $15.00 each.

On inquiries for carload shipments submit to St. Louis. CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Colorless or light yellow liquid.
Specific gravity: 1.30 at 15.5° C. (60° F.).
Weight per gallon: 10.75 lbs. approximately.
Boiling range: 90% distills at 172-180° C. (341-356° F.).
Flash point (open cup test): 65° C. (149° F.).
Railroad shipping regulations: none.
Fire hazard: none.

Orthene is our proprietary name for the chemical, orthodichlorbenzene. It is an excellent solvent for tars and for varnish gums, and is suggested as an ingredient of paint removers and certain types of cleaning preparations. It is also used in metal polishes and as an ingredient of fly sprays.

Orthene has proved of insecticidal value in destroying the Lyctus Powder Post Beetle and non-subterranean termites (white ants)—pests which do much damage to hardwood, lumber, furniture, floors, etc. Reference to Orthodichlorbenzene for this purpose is made in U. S. Bureau of Entomology Farmers Bulletin Nos. 1472 and 1477.

Orthene has been approved by the Chicago Board of Health and by the Wisconsin State Toxicologist as an ingredient of shoe dyes due to its lack of toxic effects. It replaces aniline and nitro benzene (oil of mirbane) as penetrants.

Orthene is an excellent solvent for gums and waxes, but as an ingredient of shoe dyes it acts principally as a penetrant or vehicle for carrying the dye through the finish (surface) of the leather. Alcohol is a good and low priced solvent for the color (dye stuff).

0683554

TOWOLDMON0041638
WATER_PCB-00026107

MONSANTO SALT

(ORTHOCHLORPARATOLUENE-SODIUMSULFONATE)

Scales

	150,000-lb. lots	30,000-lb. lots	2,000-lb. lots	200-lb. lots	less
200-lb. bbls. incl., per lb....	$0.25	.26	.27½	.30	...
Smaller package extra, per lb.....	...	...	...	...	.35

F.o.b. Monsanto, Ill.

CONTRACT will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

White scales.
Loss on drying: 1.0% maximum.
Chloride (as NaCl): 1.0% maximum.
Purity, calculated from organic chlorine: 95-97%.

As in the case of many other Monsanto chemicals, we manufacture the raw materials; in this instance, chlorine, as well as paratoluenesulfonchloride, which is produced from our chlorsulfonic acid and purchased toluene.

Monsanto salt is the basis of a very important dye, Lake Red C, used in printing ink lakes. It is interesting to note that this dye was not produced in the United States until we manufactured the intermediate, Monsanto Salt.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

0683555

TOWOLDMON0041639
WATER_PCB-00026108

ORTHOCLORANILINE

	1,000-lb. lots	450-lb. lots	less
55-gal. drums, extra.* approximate net weight, 450 lbs., per lb.	$0.60	.65	...
Smaller packages, extra, per lb.	.60	.65	.75

F.o.b. St. Louis, Mo.

*Tin-lined drums, charged at $15.00 each.

Contracts will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Appearance: light amber colored liquid.
Crystallizing point: 4.5° C. minimum.
Solubility in dilute hydrochloric acid: clear.
Distillation range: 96% within 3° C.
(limits 206.5°—211.5° C.)

Orthochloraniline of high purity is a desirable intermediate for both the dye and dry color industries.

Orthochloraniline can be used advantageously for fast quinoline yellow.

It may be used as a coupling component in direct cotton colors and gives excellent pigment, for example, when coupled with Beta Oxynaphthoic Acid and its anilides.

Other intermediates starting with Orthochloraniline will suggest themselves to individual manufacturers.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Verona Chemical Co., Newark, N. J.

0683556

TOWOLDMON0041640
WATER_PCB-00026109

ORTHONITROCHLORBENZENE

	5,000-lb. lots	1,000-lb. lots	Single drums
55-gal. drums (approximate net weight 550 lbs.), extra, per lb.....	$0.27	.28	.29
Smaller packages, extra, per lb.....	..	..	.40

F.o.b. St. Louis, freight equalized with New York.

CONTRACTS will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

Light yellow crystalline mass.
Crystallizing point: 31.5° C. minimum.

Orthonitrochlorbenzene is the foundation of orthoanisidine and dianisidine, both of which are employed in making a very extensive and important group of dyestuffs.

It is also used for the manufacture of orthonitrophenol and the pharmaceuticidal, guaiacol.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

COMPETITIVE MANUFACTURERS

E. I. DuPont de Nemours & Company, Wilmington, Del.

0683557

TOWOLDMON0041641
WATER_PCB-00026110

PARANITROCHLORBENZENE

Flakes

	5,000-lb. lots	1,000-lb. lots	barrel lots	less
375-lb. bbls. incl., per lb.....	$0.23	.23½	.24	...
Smaller packages, extra, per lb..	...	...	...	.30

F.o.b. St. Louis.

CONTRACTS will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

Light yellow flakes.
Crystallizing point: 81.5° C. minimum.

Paranitrochlorbenzene is used in the manufacture of paranitraniline, paranitrophenol and several other intermediates, such as parachloraniline. It is the foundation for the manufacture of paraphenetidin, the intermediate for phenacetin, and is gaining some attention as an ingredient of anti-knock compounds.

Paranitrochlorbenzene is a concomitant product with orthonitrochlorbenzene, produced by the nitration of chlorbenzene, vacuum distillation and crystallization. As we manufacture chlorine (for chlorbenzene) and mixed acid, we are in position to produce these basic raw materials at low cost and with an assured constant supply.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

COMPETITIVE MANUFACTURERS

E. I. du Pont de Nemours & Co., Wilmington, Del.

0683558

TOWOLDMON0041642
WATER_PCB-00026111

ORTHOTOLUENESULFONAMID

Powder

	5,000-lb. lots	1,000-lb. lots	less
300-lb. bbls. incl., per lb	$1.30	1.40	1.50
Smaller package extra, per lb	...	...	1.65

F.o.b. St. Louis.

These prices are for dye manufacturers only.

CONTRACTS will not be taken; refer all inquiries to St. Louis.

MONSANTO SPECIFICATIONS

Brownish crystalline powder.
Crystallizing point: 154° C. minimum.
Alcohol insoluble: 1% maximum.

This product has a limited use as a dye intermediate.

AVAILABLE LITERATURE

None.

0683559

TOWOLDMON0041643
WATER_PCB-00026112

PARATOLUENESULFONCHLORIDE

Crystals

	10-bbl. lots	bbl. lots	25-lb. lots	less
Bbls. incl., approximate net weight, 450 lbs	$0.22	.23	...	...
Smaller packages, extra	...	...	.30	.35

For dye manufacturers only the following schedule applies:

	10-bbl. lots	bbl lots
Bbls. incl., approximate net weight 450 lbs	$0.16	.18

F.o.b. St. Louis.

CONTRACTS will be taken for definite quantities over twelve months without protection.

MONSANTO SPECIFICATIONS

White or yellowish crystals.
Loss on drying: 5.0% maximum.
Crystallizing point: 64° C. minimum.
(Product previously dried at 90° C.)
Purity: 95% minimum.
Other acids as toluenesulfonic: 1.25% maximum.
Hydrochloric acid: 0.5% maximum.

Paratoluenesulfonchloride is used to make paratoluenesodium-sulfonate, an intermediate for Monsanto salt and in the manufacture of paratoluenesulfonamid, also in the selective dying of rayon fabrics. It is the basis of methylparatoluenesulfonate, which is used in making several dyes employed as antiseptics. It is used also to make ethylparatoluenesulfonate which is an ethylating agent.

In addition to the above, paratoluenesulfonchloride is used in the manufacture of dyestuffs which are fast to alkalies and milling.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

0683560

TOWOLDMON0041644
WATER_PCB-00026113

PARATOLUENESULFONAMID

Powder

	Bbl. lots	less
200-lb. bbls. incl., per lb	$0.70	...
Smaller packages extra, per lb	...	.75

F.o.b. St. Louis.

CONTRACT inquiries should be referred to St. Louis.

MONSANTO SPECIFICATIONS

Light brownish crystalline powder.
Crystallizing point: 136° C. minimum.
Loss on drying: 0.5% maximum.
Solubility in alcohol: slight turpidity.

Paratoluenesulfonamid is an intermediate used in the manufacture of the antiseptics, chloramine, dichloramine and halazone. Interest has been shown in it as a plasticizer for synthetic resins and it has an application also in dyestuff industry for the manufacture of certain colors.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

0683561

TOWOLDMON0041645
WATER_PCB-00026114

PARANITRANILINE MONSANTO

Crystalline Powder

	On Contract	Spot
350-lb. bbls. incl., per lb.	$0.51	.53

Note: A price allowance of 3c a pound is made to the larger consumers of the dye and dry color industry.

Freight allowed to all domestic points.
CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Canary yellow crystalline powder.
Melting point: 148° C. minimum.
Solubility in hydrochloric acid: Complete.
Diazo solution: Clear, slight flock permitted.
Purity: 99.0% minimum.

NOTE: The Monsanto product is fully equivalent to, or better than competitive products.

The largest use of paranitraniline is probably in the manufacture of the dry color, para toner, used in the paint and printing ink trades, and para lakes for the ink makers. It is also used for the preparation of para red on the fibre, or on cloth and in the manufacture of a large number of dyestuffs, notably naphthol blue black, as well as certain sulfur dyes; also for chlorparanitraniline, for fire toners, and paraphenylenediamine, for fur dying.

We produce the basic raw materials, chlorbenzene, mixed acid, paranitrochlorbenzene and are well grounded in the manufacture of paranitraniline. With the control of our chief raw material, paranitrochlorbenzene and the present low cost of ammonia, we have a very economical process.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Calco Chemical Company, New York.
The Sherwin-Williams Company, Cleveland, Ohio.

0683562

TOWOLDMON0041646
WATER_PCB-00026115

ORTHONITRANILINE MONSANTO

Crystalline Powder

	Contract 5,000 lbs. or more	Bbl. lots	Less
200-lb. bbls. incl., per lb	$0.53	.55	...
Smaller packages, extra, per lb	...	...	.65

F.o.b. Monsanto (St. Clair County), Illinois.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Yellowish orange crystalline powder.
Melting point: 70° C. minimum.
Solubility in hydrochloric acid: Complete.
Diazo solution: Slight turbidity maximum.
Purity: 98.7% minimum.

ORTHONITRANILINE is new as a commercial product and was offered by Monsanto to the dye and dry color trade in the summer of 1927. It is a diazotizable base, which can be used in connection with naphthol products, such as Naphthol AS, etc. This enters into Fast Orange GR Base, and also as the Nitrosamine of its diazo compound in mixture with Naphthol AS in the so-called "Rapid Fast Orange RG Paste." The latter is used primarily in calico printing.

The possibilities for devising new shades, using either ORTHONITRANILINE alone or in combination, are attractive.

ORTHONITRANILINE is produced in our own plant from basic raw materials made by us. The production of this item can be readily expanded to very large proportions.

The price has been set low purposely to induce research on the part of dye and dry color manufacturers, which should result in a substantial business.

0683563

TOWOLDMON0041647
WATER_PCB-00026116

PARANITROPHENOL

	5,000-lb. lots	1,000-lb. lots	Single bbls.
175-lb. bbls incl., per lb.	$0.45	.46	.47

F.o.b. St. Louis.

CONTRACT inquiries should be referred to St. Louis.

MONSANTO SPECIFICATIONS

Light brown crystalline mass.
Melting point: 112° C. approximately.
Purity: 96% minimum.

Paranitrophenol can be utilized to manufacture paraminophenol and methylparaminophenol (Metol), both used extensively as photographic developers. Paraminophenol also is used as a fur dye and is an intermediate which is the basis of numerous dyes, particularly of the sulfur color class; several sulfur greens are derived from paranitrophenol.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

COMPETITIVE MANUFACTURERS

E. I. DuPont de Nemours & Co., Wilmington, Del.
Verona Chemical Co., Newark, N. J.
Gaskill Chemical Corp., Newark, N. J.

0683564

TOWOLDMON0041648
WATER_PCB-00026117

PARANITROPHENOL SODIUM

Scales

	5,000-lb. lots	1,000-lb. lots	bbl. lots	less
175-lb. bbls. incl., per lb.....	$0.46	.47	.48	...
Smaller packages, extra, per lb.....	...	...	...	.50

F.o.b. St. Louis, or New York.

CONTRACT and other inquiries should be referred to St. Louis.

MONSANTO SPECIFICATIONS

Brownish yellow scales.
Moisture: 8—10%.
Water insoluble: 1.5% maximum.
Purity: 80% sodium nitrophenol anhydrous minimum.
Sodium nitrophenol: equivalent to 69% paranitrophenol.
Melting point: 112.5° to 114.6° C.

Used for the manufacture of paramidophenol by the alkaline reduction process.

AVAILABLE LITERATURE

None.

0683565

TOWOLDMON0041649
WATER_PCB-00026118

PARAPHENETIDIN

Liquid

	1,000-lb. lots	450-lb. lots	100-lb. lots	less
55-gal. drums extra, approximate net weight 450 lbs., per lb.....	$1.50	1.55	...	...
25-gal. drums extra, approximate net weight 225 lbs., per lb.....	1.50	1.55	1.60	1.75

For dye makers only use the following schedule:

	1,000-lb. lots	450-lb. lots	100-lb. lots	less
55-gal. drums extra, approximate net weight 450 lbs., per lb.....	$0.90	...	...	...
25-gal. drums extra, approximate net weight 225 lbs., per lb.....	.90	.95	1.00	1.25

F.o.b. St. Louis.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Dark reddish liquid.
Crystallizing point: 2° C., approximately.
Distillation range: 96% distills within 3° C.; minimum and maximum within 247-252° C.
Solution in dilute hydrochloric acid: clear.

Paraphenetidin is the source of the dye, Violamine 3B, and several lake and pigment colors, particularly of the red type. It is also used to make paraphenetidin orthosulfonic acid, an intermediate also employed in making a similar type of colors. The dyes derived from paraphenetidin and its intermediates are characterized by the fact that they are very fast to light.

It is also the intermediate for the manufacture of acetphenetidin.

Paraphenetidin is one of a succession of intermediates which are manufactured within our works: chlorbenzene, paranitrochlorbenzene, paranitrophenetole, etc.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

0683566

TOWOLDMON0041650
WATER_PCB-00026119

ORTHOPHENETIDIN

	1,000-lb lots	450-lb. lots	100-lb. lots	less
55-gal. drums extra, approximate net weight, 450 lbs., per lb.....	$0.80	.95	...	...
25-gal. drums extra, approximate net weight, 225 lbs., per lb.....	.80	.95	...	...
Smaller packages, extra.....	.80	.95	1.00	1.25

F.o.b. St. Louis

Contracts will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

Dark reddish liquid.

Crystallizing point: —4° C. ("seeding" is necessary to crystallize).

Distillation range: 95% distills within 3° C.; (minimum and maximum 231°—234° C.).

Purity by diazotization: 99% minimum.

Impurities: May contain very small quantities of Orthochloraniline and Paraphenetidin.

NOTE: For several years we have had inquiries for Orthophenetidin which is now available.

Orthophenetidin is used in the manufacture of dyes and dry colors. It may replace Paraphenetidin and Orthoanisidine in some cases, giving a color that is practically unaffected by light and non-bleeding. Orthophenetidin makes a red lake by coupling with Beta-Naphthol.

AVAILABLE LITERATURE

None.

0683567

TOWOLDMON0041651
WATER_PCB-00026120

ACID PARATOLUENESULFONIC

1,100-lb. drums, extra, per lb.	$0.30
125-lb. carboys, extra, per lb.	.33
Smaller packages, extra, per lb.	.40

F.o.b. St. Louis.

CONTRACTS on this item will not be taken.

MONSANTO SPECIFICATIONS

Brown crystalline mass.
Crystallizing point: 32—38° C.
Purity: 90% minimum paratoluenesulfonic acid anhydrous.

Market as an intermediate restricted. It is usually preferable to purchase paratoluenesulfonchloride.

AVAILABLE LITERATURE

None.

0683568

TOWOLDMON0041652
WATER_PCB-00026121

PHTHALIC ANHYDRIDE MONSANTO

Flakes

	Carload lots	Less than carload lots	Smaller packages
250-lb. bbls. incl., per lb.....	$0.15	.15	...
Smaller packages extra, per lb.. ...		...	.25

Ex. warehouse New York, 1c per lb. extra.
Freight allowed on carload lots.
Less than carload lots, F.o.b. St. Louis, freight equalized with Pittsburgh or Buffalo.

Contracts will be taken over twelve months for a definite quantity with protection.

MONSANTO SPECIFICATIONS

White flakes.
Crystallizing point: 131.0° C. minimum.
Solubility in benzene: 1:20, complete.
Purity essentially 100%.

Phthalic anhydride has an almost unlimited number of uses, but the most important ones are as a basis of anthranilic acid; manufacture of anthraquinone and its derivatives; production of diethyl phthalate, a synthetic perfume base; manufacture of dibutyl phthalate, a lacquer plasticiser, and the manufacture of phenolphthalein.

Phthalic anhydride is the foundation of the intermediates dichlorphthalic anhydride and tetrachlor phthalic anhydride, which are used in making numerous dyes. Phthalic anhydride is also attracting attention in the manufacture of synthetic resins, a relatively new use.

Monsanto was the first American manufacturer, beginning in 1916 when the war cut off the supply that we had been importing for the manufacture of a principal product, phenolphthalein. Manufactured primarily for our own use, new applications and increased consumption of phthalic anhydride have given it an important place in our manufacturing program and we are now producing large quantities for sale.

PHTHALIC ANHYDRIDE MONSANTO in flake form is a quality hitherto not obtainable in the commercial article. The flakes as well as the melt are pure white.

Because of higher specific gravity, the net weight of the barrels has been increased 66% as compared to the former needle crystals. This means economies in handling and in storage space.

AVAILABLE LITERATURE

Booklet: Monsanto Intermediates.

COMPETITIVE MANUFACTURERS

The Selden Company, Pittsburgh, Pa.
E. I. DuPont de Nemours & Company, Wilmington, Del.
National Aniline & Chemical Co., New York.

0683569

TOWOLDMON0041653
WATER_PCB-00026122

SALICYLALDEHYDE

Liquid

	100-lb. lots	50-lb. lots	25-lb. lots	less
100-lb. carboys, extra, per lb.....	$2.50	...	...	...
Smaller package extra, per lb.....	...	2.75	3.00	3.50

F.o.b. St. Louis.

CONTRACTS will not be taken.

MONSANTO SPECIFICATIONS

85% distills within 10° between 190° and 200° C. approximately.

An intermediate chemical.

AVAILABLE LITERATURE

None.

0683570

TOWOLDMON0041654
WATER_PCB-00026123

Telegraphic Code:
"Chlorine"

CHLORINE

Liquid

Cylinders—150 lbs. Chlorine—(Tare weight of Cylinder, 130 lbs.).

Territory Sales and Prices:		Carloads Cylinders	L.C.L. Cylinders
Missouri	per lb.	$0.07	.09
Iowa	"	.065	.085
Arkansas	"	.075	.10
Kansas	"	.085	.11
Nebraska	"	.085	.11
Oklahoma	"	.085	.105
Illinois (Except Chicago District and 22 Counties in northeast part, namely:	"	.06	.075

Stephenson	Winnebago	Boone	McHenry
Lake	Ogle	DeKalb	Kane
Cook	DuPage	Lee	LaSalle
Kendall	Will	Grundy	Livingston
Kankakee	Iroquois	Ford	Champaign
	Vermillion	Edgar)	

TANK CARS and MULTI UNIT CARS (15 one ton cylinders): Inquiries must be referred to St. Louis for price and availability of equipment.

WAREHOUSE STOCKS: Prices for shipments from warehouse stocks are 1½c a pound above L.C.L. price for state in which stocks are carried.

F.O.B. POINTS: All sales are made freight prepaid to destination within the sales territory above defined and includes the return of empty cylinders, freight collect to our Works at Monsanto, Illinois.

TERMS: Net cash 30 days, less 1% for cash in 10 days.

CONTRACTS are to be taken not to exceed 12 months, without price protection against decline.

TRUCK SHIPMENTS FROM BASE POINTS: When truck shipments include storedoor delivery, an extra charge of 10c per 100 lbs. Chlorine should be made. Also an extra charge of 10c per 100 lbs. gross weight, should be made for empty cylinders returned by same trucking service. In event truck rates are lower than all rail rates no credit or adjustment is to be made.

CYLINDER DEPOSIT: The title to cylinders remains vested in us. A deposit of $20 00 for each cylinder is required as a guarantee of its return, and to cover any misuse of, damage to, retention, or loss of cylinder. (See exception in following paragraph.) This deposit is refunded upon return of cylinders in good condition at our works.

Should cylinder be retained by buyer in excess of 120 days, a rental charge of 50c a month or fraction thereof, is to be paid by buyer. There will be no exception to this deposit requirement and rental charge, except in the case of Official, Municipal, State or Federal Institutions, whose appropriations are so regulated by

TOWOLDMON0041655
WATER_PCB-00026124

Tele. Code
Santwo
Sanfive
Santhrefor

SANTOCHLOR

(PARADICHLORBENZENE)

Crystals

	For Manufacturing purposes		For insecticide purposes	
*carloads	10,000 lbs. or more per year	less than 10,000 lbs. per year	dealers	consumers
200-lb. bbls. incl., per lb.	$0.14	.15	.17	.22
100-lb. kegs incl., per lb.	.15	.16	.18	.23
50-lb. kegs incl., per lb.	.16	.17	.19	.24
25-lb. cans incl., per lb.	.17	.18	.20	.25
10-lb. cans incl., per lb.	.18	.19	.22	.27
5-lb. cans incl., per lb.	.20	.21	.25	.32
1-lb. cans incl., per lb.	.23	.26	.33	.47

F.o.b. Monsanto, or warehouse stocks, freight allowed to destination on 100 lbs. and over.

West of the Rockies 1c a lb. higher than above schedule.

*All inquiries for carload lots should be referred to St. Louis for approval of quotation. Carloads, 36,000 lbs. gross; 160 bbls. or 32,000 lbs. net.

CONTRACTS will be taken over twelve months with protection.

MONSANTO SPECIFICATIONS

White crystals.
Odor: characteristic.
Crystallizing point: 52.8° C. minimum.

Santochlor is harmless to human beings and the lower animals.

Without melting it vaporizes readily at temperatures of 50° F. and over. When the gas can be confined such as in a trunk or chest in the manner that naphthalene (moth balls) is applied, it is very effective as a moth preventive.

In reality it is superior to naphthalene and moreover the odor is readily dissipated when the clothing is taken out of storage.

Santochlor is also molded or pressed into blocks which are mounted in lavatories. For this purpose a perfume is usually added, the purpose being to impart a pleasant fragrance to the room. Such blocks last from two to four weeks, dependent on the temperature.

0683572

TOWOLDMON0041656
WATER_PCB-00026125

Santochlor is also perfumed (sometimes colored) and marketed in sprinkler top cans. The purpose is the same as for the molded or pressed blocks.

Santochlor is available in three standard sizes of crystals:

No. 34: (Medium size) A combination of two uniformly sized crystals. Desirable for compressing into cakes, as well as for shaker top cans. (Code "Santhrefor.")

No. 5: (Small size) To kill the peach tree borer and for insecticide and miscellaneous uses. (Code "Sanfive.")

No. 2: (Large size) For shaker top cans. (Code "Santwo.")

AVAILABLE LITERATURE

Folder: "Save Them." A description of methods of applying santochlor to kill the peach tree borer.

Folder: Santochlor in Three Standard Sizes.

Four page illustrated letter on Moth Control.

Box set of samples of three sizes of crystals.

COMPETITIVE MANUFACTURERS

The Dow Chemical Co., Midland, Mich.

Hooker Electrochemical Co., New York.

Niagara Alkali Co., Niagara, N. Y.

Solvay Process Company, Syracuse, N. Y.

E. I. duPont de Nemours & Co., Wilmington, Del.

0683573

TOWOLDMON0041657
WATER_PCB-00026126

SODIUM ACETATE U. S. P.

Crystals

	5-bbl. lots	less
300-lb. bbls. incl., per lb	$0.09	.10
Smaller packages, extra, per lb	...	.12

F.o.b. St. Louis.

Refer inquiries for quantities in excess of two tons to St. Louis for confirmation of delivery.

Refer contract inquiries to St. Louis.

Sodium acetate can be supplied also in anhydrous powder (48A). For price ask St. Louis.

MONSANTO SPECIFICATIONS

White granular crystals.
Purity: 99.5% minimum.
Sodium sulfate: 0.05% maximum.
Sodium chloride: 0.05% maximum.
Fineness: 100% through 10 mesh.

Used as a photographic chemical, as a dye intermediate and in nominal amounts by starch manufacturers.

Above prices apply on U. S. P. crystals containing approximately 40% water of crystallization.

AVAILABLE LITERATURE

None.

0683574

TOWOLDMON0041658
WATER_PCB-00026127

SODIUM PHENATE

Powder

	300-lb. lots	50-lb. lots	less
300-lb. drums extra, per lb	$0.28	...	...
25-lb. cans incl., per lb	.30	.31	.33
Smaller package extra, per lb	...	...	.35

F.o.b. St. Louis.

CONTRACTS will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

Purity: 96% minimum.
Phenol: no excess present.

In the dyeing of celanese (cellulose acetate) with vat colors, it replaces caustic soda; competes with resorcinate, cresolate, beta napthalate, alpha napthalate, etc. It has a price advantage over these competing products.
A preservative and antiseptic.

AVAILABLE LITERATURE

None.

0683575

TOWOLDMON0041659
WATER_PCB-00026128

ACID, MIXED

(NITRATING ACID)

Liquid

Tank cars, approximate net weight.....40 tons
Drums. . . ..1,500 lbs.

Generally shipped in tank cars, 80,000 lbs. net weight.

For prices ask St. Louis.

F.o.b. Monsanto, Ill.

CONTRACTS will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

61—36% mixture.
Sulfuric acid (H_2SO_4): 61% minimum.
Nitric acid (HNO_3): 36% minimum.
Oxides of nitrogen (N_2O_3): 0.25% maximum, average 0.1%.

57—33% mixture.
Sulfuric acid (H_2SO_4): 57% minimum.
Nitric acid (HNO_3): 33% minimum.
Oxides of nitrogen (N_2O_3): 0.25% maximum, average 0.1%.

Mixed acid is used for nitrating in the chemical industry, particularly in the manufacture of explosives and dyestuffs. The two mixtures above are standard, but special ones can be furnished to meet individual requirements.

COMPETITIVE MANUFACTURERS

Atlas Powder Co., Joplin, Mo.
Grasselli Chemical Co., Cleveland, O. (Chicago or Cleveland works).
General Chemical Co., New York (Chicago or Buffalo works).
And others.

0683576

TOWOLDMON0041660
WATER_PCB-00026129

ACID MURIATIC

(ACID HYDROCHLORIC)

	Car lots	20-cby. lots	10-cby. lots	5-cby. lots	less
18° (51)					
Tank cars, approximate net weight 20 or 30 tons, per ton	$16.00	...	...	...	...
Carboys extra, per cwt.	1.35	1.75	2.25	2.50	2.75
20° (51A)					
Carboys extra, per cwt.	...	2.25	2.75	3.00	3.25

For prices on large quantities ask St. Louis.

F.o.b. Monsanto, Ill.

CONTRACTS will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

To meet requirements of the consumer in percentage and impurities such as iron and sulfuric acid.
Generally 18°, 27.92% HCl, and 20°, 31.45% HCl.

Manufactured by the action of sulfuric acid on sodium chloride. Used extensively in the industries, including starch, glucose, steel, galvanizing, paper and glass. Shipped in rubber lined tank cars of our own fleet or in 114-lb. carboys.

0683577

TOWOLDMON0041661
WATER_PCB-00026130

Telegraphic Code:
"Hydrocip"

HYDROCHLORIC ACID C. P.

Spot Sales	114-lb. lots	60-lb. lots	6-lb. lots
12-gal. carboys, extra, per lb. (Approx. 114 lbs. net)	$0.06	...	...
Case of 10x5 pt. g. s. bottles, extra, per lb. (Approx. 60 lbs. net)	...	.08	...
Single 5 pt. g. s. bottles incl., per lb. (Approx. 6 lbs. net)	...	...	.18

Contract—consumers—½c per lb. below above schedule.

Open market—jobbers—1c per lb. below above schedule.

Contract—jobbers—1½c per lb. below above schedule.

F.o.b.:

Boston, Mass.	New York, N. Y.
Buffalo, N. Y.	Philadelphia, Pa.
Chicago, Ill.	Providence, R. I.
Cleveland, Ohio	Pittsburgh, Pa.
Easton, Pa.	St. Louis, Mo.

If essential and desirable to meet competition, freight may be equalized with any other point of production and distribution.

Terms: 1% 10 days—net 30 days.

MONSANTO SPECIFICATIONS

Colorless liquid, free from suspended matter.

Strength (HCl)	35% Minimum
Non-Volatile matter	0.0005% Maximum
Sulphate (SO_4)	0.0002% Maximum
Free Chlorine (Cl)	0.0002% Maximum
Sulphite (SO_2)	0.003% Maximum
Arsenic (As)	0.00001% Maximum
Iron (Fe)	0.0001% Maximum
Heavy Metals (as lead)	0.005% Maximum

(Monsanto specifications conform with "A.C.S." specifications.)

Containers will be charged at the following prices, returnable for full credit, provided freight charges are prepaid to our works, and that containers and cases are in good condition:

Carboys, stoppers intact (domestic and foreign).....$5.00 each

Cases—$2.00, 10x5 pt. glass stoppered bottles (domestic and foreign)..... .35 each

Single bottles without cases, not returnable.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

General Chemical Co., New York.
Grasselli Chemical Co., New York.
Pennsylvania Salt Mfg. Co., New York.
J. T. Baker Chemical Co., Phillipsburg, N. J.
Chas. Cooper & Co., New York.
Sterling Products Co., Easton, Pa.

0683578

TOWOLDMON0041662
WATER_PCB-00026131

MURIATIC ACID C. P.

Spot Sales	114-lb. lots	60-lb. lots	6-lb. lots
12-gal. carboys, extra, per lb. (Approx. 114 lbs. net)	$0.06	...	...
Case of 10x5 pt. g. s. bottles, extra, per lb. (Approx. 60 lbs. net)	...	.08	...
Single 5 pt. g. s. bottles incl., per lb. (Approx. 6 lbs. net)	...	...	.18

Contract—consumers—½c per lb. below above schedule.

Open market—jobbers—1c per lb. below above schedule.

Contract—jobbers—1½c per lb. below above schedule.

F.o.b.:

Boston, Mass.	New York, N. Y.
Buffalo, N. Y.	Philadelphia, Pa.
Chicago, Ill.	Providence, R. I.
Cleveland, Ohio	Pittsburgh, Pa.
Easton, Pa.	St. Louis, Mo.

If essential and desirable to meet competition, freight may be equalized with any other point of production and distribution.

Terms: 1% 10 days—net 30 days.

MONSANTO SPECIFICATIONS

HCl	36% approx.
Sulphate (SO_3)	0.0002%
N. V. M.	0.0005%
Free chlorine (cl)	0.0002%
Sulphurous Acid (SO_3)	0.005 %
Iron (Fe)	0.000 %
Other Heavy Metals	None
Arsenic (As_2O_3)	0.00000%

Containers will be charged at the following prices, returnable for full credit, provided freight charges are prepaid to our works, and that containers and cases are in good condition:

Carboys, stoppers intact (domestic and foreign).....$5.00 each

Cases—$2.00, 10x5 pt. glass stoppered bottles (domestic and foreign)..... .35 each

Single bottles without cases, not returnable.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

General Chemical Co., New York.
Grasselli Chemical Co., New York.
Pennsylvania Salt Mfg. Co., New York.
J. T. Baker Chemical Co., Phillipsburg, N. J.
Chas. Cooper & Co., New York.
Sterling Products Co., Easton, Pa.

0683579

TOWOLDMON0041663
WATER_PCB-00026132

Telegraphic Code:
36° "Nitrix"
38° "Nitrate"
40° "Nitree"
42° "Nitroo"

ACID NITRIC

Liquid

	Approximate net wt. lbs.	5-cby. lots	less
36° carboys, extra, per cwt.	136	$6.00	6.25
38° carboys, extra, per cwt.	138	6.50	6.75
40° carboys, extra, per cwt.	140	7.00	7.25
42° carboys, extra, per cwt.	142	7.50	7.75

For price on carloads ask St. Louis.

CONTRACTS will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

Nitric acid of the following strengths is shipped:

	Degrees Beaume	per cent HNO_3
(216-0-1)	36	52.2 Min.
(216-0-2)	38	56.5 Min.
(216-0-3)	40	61.2 Min.
(216-0-4)	42	66.6 Min.

Specific gravity: must not vary more than 0.05° in terms of Beaume.
Sulfuric acid (H_2SO_4): 0.1% maximum.
Hydrochloric acid (HCl): 0.1% maximum.

Made by the action of sulfuric acid on Chilean sodium nitrate. Used in the manufacture of insecticides, dyestuffs, drugs, pharmaceuticals, explosives and in photo engraving.

COMPETITIVE MANUFACTURERS

General Chemical Co., St. Louis, Mo.
Grasselli Chemical Co., Cleveland, Ohio.
Central Chemical Co., Chicago, Ill.

TOWOLDMON0041664
WATER_PCB-00026133

NITRIC ACID C. P.

Spot Sales	132-lb. lots	70-lb. lots	7-lb. lots
12-gal. carboys, extra, per lb. (Approx. 132 lbs. net)	$0.11	...	...
Case of 10x5 pt. g. s. bottles, extra, per lb. (Approx. 70 lbs. net)	...	.13	...
Single 5 pt. g. s. bottles incl., per lb. (Approx. 7 lbs. net)	...	...	.22

Contract—consumers—½c per lb. below above schedule.

Open market—jobbers—1c per lb. below above schedule.

Contract—jobbers—1½c per lb. below above schedule.

F.o.b.:

Boston, Mass.	New York, N. Y.
Buffalo, N. Y.	Philadelphia, Pa.
Chicago, Ill.	Providence, R. I.
Cleveland, Ohio	Pittsburgh, Pa.
Easton, Pa.	St. Louis, Mo.

If essential and desirable to meet competition, freight may be equalized with any other point of production and distribution.

Terms: 1% 10 days—net 30 days.

MONSANTO SPECIFICATIONS

HNO_3	69% approx.
Sp. Gr.	1.42 approx.
N. V. M.	0.0035%
Sulphate (SO_3)	0.0006%
Chloride (Cl)	0.0001%
Iodine (I)	0.0005%
Heavy Metals	None
Calcium (Ca)	0.002%
Arsenic (AS_2O_3)	0.00001%

Containers will be charged at the following prices, returnable for full credit, provided freight charges are prepaid to our works, and that containers and cases are in good condition:

Carboys, stoppers intact (domestic and foreign).....$5.00 each

Cases—$2.00, 10x5 pt. glass stoppered bottles (domestic and foreign)..... .35 each

Single bottles without cases, not returnable.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

General Chemical Co., New York.
Grasselli Chemical Co., New York.
Pennsylvania Salt Mfg. Co., New York.
J. T. Baker Chemical Co., Phillipsburg, N. J.
Chas. Cooper & Co., New York.
Sterling Products Co., Easton, Pa.

0683581

TOWOLDMON0041665
WATER_PCB-00026134

NITRE CAKE

(SODIUM BISULFATE)

UNGROUND

	Car lots	5 ton lots	2 ton lots	less
Bulk, approximate net weight				
30 to 40 tons, per ton	$16.00	...	...	...

GLOBULAR

Bulk, approximate net weight				
30 to 40 tons, per ton	40.00	...	...	...
650 lb. bbls. incl., per ton	45.00	...	...	...
650 lb. bbls. incl., per cwt.	...	3.00	3.50	4.00

F.o.b. Monsanto, Ill.

All inquiries should be referred to St. Louis.

MONSANTO SPECIFICATIONS

Small white globules, or unground (lumps).
Available sulfuric acid (H_2SO_4): 28 to 35%.
Water insoluble matter: 2% maximum.

Concomitant product in the manufacture of nitric acid.

Used in the manufacture of paper, disinfectants, etc., and occasionally used as a substitute for sulfuric acid.

COMPETITIVE MANUFACTURERS

Calco Chemical Co., Bound Brook, N. J.
General Chemical Co., New York (Chicago works).
Grasselli Chemical Co., Cleveland, O. (Chicago works).
Illinois Powder Co., St. Louis.
And others.

0683582

TOWOLDMON0041666
WATER_PCB-00026135

SALT CAKE

(SODIUM SULFATE)

Granular

Carloads, 30 to 40 tons, net, bulk	per ton
St. Louis and East St. Louis	$21.00
Arkansas, Kansas, Oklahoma and Texas	20.00
Louisiana for paper trade	18.00

Packed in 350-lb. bbls. incl., $7 per ton extra.

F.o.b. Monsanto, Ill.

CONTRACTS will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

Fine white granular product.
Sulfuric acid (H_2SO_4): 1.5% maximum.
Sodium chloride (NaCl): 2.0% maximum.
Purity (Na_2SO_4): 95% minimum.
Total of free acid and salt shall not exceed 2.5%.

Concomitant product in the manufacture of hydrochloric acid. Used extensively in the manufacture of paper, pigments, stock remedies and is especially adapted to glass manufacture.

COMPETITIVE MANUFACTURERS

The Grasselli Chemical Co. (Chicago works).
General Chemical Co., Chicago, Ill.
Miles Salt Company, New Orleans, La. (Weeks Island, La. works).
Southern Acid & Sulphur Co. (Little Rock, Ark. works).
And others.

0683583

TOWOLDMON0041667
WATER_PCB-00026136

SODIUM SULFATE

Powder

	Car lots	50-bbl. lots	ton lots	less
350-lb. bbls. incl., per cwt.....	$1.75	1.75	2.25	2.50

F.o.b. Monsanto, Ill.

CONTRACTS will be taken over twelve months without protection.

This is the same as salt cake except that it is finely powdered. Its largest use is in stock remedies.

COMPETITIVE MANUFACTURERS

Grasselli Chemical Co., Cleveland, O. (Chicago works).
General Chemical Co., New York (Chicago works).
Myles Salt Co., Weeks Island, La.
Southern Acid & Sulfur Co., Little Rock, Ark.

0683584

TOWOLDMON0041668
WATER_PCB-00026137

Telegraphic Code:
"Nitrake"

NITRE CAKE

(SODIUM BISULFATE)

UNGROUND

	Carlots only
Bulk, approximate net weight 30 to 40 tons, per ton	$16.00

F.o.b. Monsanto, Illinois.

All inquiries for unground material should be referred to St. Louis.

GLOBULAR

	Car lots	20 bbls to c/l	5 to 19 bbls.	1 to 4 bbls.
Bulk, approximate net weight 30 to 40 tons, per ton	$40.00	...	...	...
650-lb. bbls. incl., per ton	45.00	...	...	...
650-lb. bbls. incl., per cwt.	...	3.00	3.50	4.00

F.o.b. Monsanto, Illinois, freight equalized with Bound Brook, N. J. or Cleveland, Ohio.

GROUND

	Car lots	10 bbls. or more	less
650-lb. bbls. incl., per ton	$25.00	...	...
650-lb. bbls. incl., per cwt.	...	2.00	2.50

F.o.b. Monsanto, Illinois, or freight equalized with Chicago or Cleveland.

Contracts for Globular or Ground will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

Available sulfuric acid (H_2SO_4): 28 to 35%.
Water insoluble matter: 2% maximum.

Concomitant product in the manufacture of nitric acid.

Used in the manufacture of paper, disinfectants, etc., and occasionally used as a substitute for sulfuric acid.

COMPETITIVE MANUFACTURERS

Calco Chemical Co., Bound Brook, N. J.
General Chemical Co., New York (Chicago Works).
Grasselli Chemical Co., Cleveland, Ohio (Chicago Works).
Central Chemical Co., Chicago, Ill.

0683585

TOWOLDMON0041669
WATER_PCB-00026138

Telegraphic Code:
60° "Sulftce"
66° "Sulfix"
98% "Sulfate"
20% "Hyleum"

ACID SULPHURIC

	60° (213-0-1)	66° (215-0-1)	98% (215-0-4)	Oleum 20% (215-0-6)
*Tank Cars (approx. 50 ton) per ton	$11.50	16.00	17.00	17.75
*Carlots—drums, per ton	20.00	23.00	30.00	35.00
L.C.L.—drums, per ton	22.00	25.00	35.00	40.00
***Carlots—carboys, per cwt.	1.15	1.35	...	...
L.C.L.—				
20 carboy lots, per cwt.	1.25	1.75	2.25	2.50
10 carboy lots, per cwt.	1.50	2.25	2.75	3.00
5 carboy lots, per cwt.	1.75	2.50	3.00	3.25
Less, per cwt.	2.00	2.75	3.25	3.50

*All inquiries for tank car quotations, and for concentrations other than listed above must be referred to St. Louis.

**Drums (ICC-5-A) 110-gallon capacity—$15.00 extra, returnable.

***Carboys, 12-gallon capacity—$5.00 extra, returnable.

Empty drums and carboys accepted for full credit if returned in good condition within 90 days, freight charges for buyer's account, or if in metropolitan district of St. Louis, delivered to our truck.

TANK CARS—F.o.b. Monsanto, Illinois.

DRUMS, CARBOYS, carlots or L.C.L.—F.o.b. Monsanto, Illinois, except in metropolitan district St. Louis—L.C.L. price includes delivery by truck.

Contracts will be taken for twelve months without protection.

MONSANTO SPECIFICATIONS

60° Beaume (213-0-1).
Clear and colorless liquid.
Strength: 77.67% plus or minus 0.2%.
Freezing point: 12.6° F.
Specific Gravity: 1.700 at 60° F.
Nitrates: free by ferrous sulfate test.
Iron: 0.05% maximum.
Drums: 1,400 pounds net. Carboys: 170 pounds net.

66° Beaume—tank cars (215-0-1).
Strength: 93.19% plus or minus 0.2%.
Freezing point:—29.0° F.
Specific Gravity: 1.835 at 60° F.
Nitrates: Free by ferrous sulfate test.
Iron: 0.05% maximum.

66° Beaume—Carboys and drums (215-0-2).
Practically colorless.
Strength: 93.2%—93.5%.
Freezing point:—29.0° F.
Specific Gravity: 1.835 at 60° F.

(Continued on other side)

0683586

TOWOLDMON0041670
WATER_PCB-00026139

Nitrogen compounds (as N_2) 0.005% maximum.
Iron: 0.005% maximum.
Drums: 1,450 pounds net. Carboys: 180 pounds net.

98% (215-0-4).

Strength 98% plus or minus 0.2%.
Freezing point: 37.4° F.
Specific Gravity: 1.840 at 60° F.
Nitrates: free by ferrous sulfate test.
Iron: 0.05% maximum.
Drums: 1,500 pounds net. Carboys: 185 pounds net.

Oleum 20% or Fuming Sulfuric Acid (215-0-6).

Strength: 104.5% plus or minus 0.2%.
Freezing point: 23.0° F.
Specific Gravity: 1.880 at 60° F.
Drums: 1,500 pounds net. Carboys: 190 pounds net.

Sulfuric acid of other strengths and standards of purity can be furnished to meet individual requirements.

Derivation: Manufactured from pure brimstone in the above mentioned strengths, or to meet the requirements of the consumer.

Uses: In most industries, but extensively in steel mills, enameling works, oil refineries, pigment works, by-products gas plants, fertilizer plants, etc.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

American Zinc Lead & Smelting Co., East St. Louis, Ill.
Eagle Picher Lead Co., Hillsboro, Ill.
General Chemical Co., East St. Louis, Ill.
Graselli Chemical Co., Cleveland, Ohio.
Hegeler Zinc Co., Danville, Ill.
Mathiessen & Hegeler Zinc Co., LaSalle, Ill.
National Zinc Co., Bartlesville, Okla.
New Jersey Zinc Co., DePue, Ill.
Ozark Chemical Co., Tulsa, Okla.
Southern Acid & Sulphur Co., Little Rock, Ark. and Port Arthur, Texas.
Texas Chemical Co., Houston, Texas.
United Chemical Co., Dallas, Texas.

0683587

TOWOLDMON0041671
WATER_PCB-00026140

ARL

Telegraphic Code:
Phenol U.S.P. "Phenol"
Phenol 85% Sol. "Phensol"

PHENOL U. S. P.
(CARBOLIC ACID)

TANK CARS:
Contracts, 100,000 lbs or more.....12¾c a pound
Spot.....13c a pound

	Carlots Contract	Carlot-spot, Contr. over 50,000 lbs.	L.C.L. Contr. up to 50,000 lbs.	less spot
875-lb. I.C.C. drums extra, per lb.....	$0.14	.14¼	.14½	.15
*290-lb. drums, incl., per lb..	.14½	.14¾	.15	.15½
250-lb. tins incl., per lb....	.15	.15¼	.15½	.16
112-lb. tins incl., per lb....	.16	.16¼	.16½	.17
50-lb. tins incl., per lb....	.21	.21¼	.21½	.22
25-lb. tins incl., per lb....	.23	.23¼	.23½	.24

If 4—25-lb. or 2—50-lb. tins are ordered at one time the price is 1c a lb. less than for single tins.

F.O.B. Monsanto, Illinois. Freight equalized with Midland, Michigan or Frankford (Philadelphia), Pennsylvania.

1c lb. extra, ex-warehouse—Chicago and Boston.
3/10c lb. extra, ex-warehouse—New York.
1/10c lb. extra, storedoor delivery—Philadelphia.

EXCEPTION: Ex-warehouse charge does not apply on 25 and 50-lb. tins.

CONTRACTS will be taken over twelve months with protection.

*This package is preferred by some buyers, who do not object to discoloration of the Phenol in contact with iron. The drums have a resale value, but are not returnable.

NOTE: Indestructible drums returnable at BUYER'S expense.

PHENOL can be supplied in 85% solution (approx.) (223-0-1). This will run 84-86% and will be billed at 1c less than above prices. 85% Phenol is shipped in 55-gallon indestructible drums only. (Returnable.)

250-lb. and 112-lb. tins are packed in overcasks (barrels), the space around the container being filled with sawdust.

The 50-lb. and 25-lb. tins are boxed in wood.

WEIGHTS:
TANK CARS: approximately 60,000 lbs. net.
MINIMUM CARLOADS: 875-lb. and 290-lb. drums—250-lb. tins and 200-lb. drums if shipped without overcasks—36,000 lbs. gross.
250-lb. and 112-lb. tins, 200-lb. drums with overcasks or boxed—30,000 lbs. gross.
Mixed cars—36,000 lbs. gross.

0683588

TOWOLDMON0041672
WATER_PCB-00026141

NET WEIGHTS:

250's (317 pounds gross) 95 tins=23,750 pounds net carload.

290's (33 gals. or 332 pounds gross) 109 drums=31,610 pounds net carload.

875's (110 gals. (approx. 1,075 pounds gross)) 34 drums=29,750 pounds net carload.

MONSANTO SPECIFICATIONS

White, colorless solid or crystals.

Crystallizing point: 40°-41° C.

Odor: characteristic; pure and sweet: not smoky or pungent.

Solution in water: 1:15, complete. Reactions to litmus, neutral or slightly acid.

Solution in 10% solution caustic soda shows no color or turbidity.

Non-volatile residue: 0.04% maximum.

Phenol has very many uses, among which may be named the manufacture of synthetic phenolic resins for automotive insulation, molded plastics and radio parts; for dyes and other intermediates; manufacture of salicylic acid and phenolphthalein and as a germicide, antiseptic and preservative.

Monsanto manufactures the synthetic product by treating benzene with sulfuric acid and converting the resulting benzene sulfonate into phenol by fusion with caustic soda. Synthetic phenol is specified by many of the largest and most critical consumers. It is more uniform than the natural, free from cresylic isomers and not nearly so apt to turn color. Of the raw materials, benzene is purchased, but we manufacture the sulfuric acid and caustic soda within our own plant.

Prior to the war, the domestic manufacture of phenol was from tar, but war demands soon led to the production of synthetic phenol for explosives on an enormous scale.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

The Dow Chemical Co., Midland, Mich. (Synthetic).

The Barrett Co., New York City (Natural).

International Combustion Tar & Chemical Co., New York City (Natural).

Kopper's Products Co., Pittsburgh, Pa. (Natural).

TOWOLDMON0041673
WATER_PCB-00026142

ACID SULPHURIC

(Liquid)

60°	Car lots	20 cby. lots	10 cby. lots	5 cby. lots	less
Tank cars, approximate net weight, 100,000 lbs. per ton	$11.50	...	...	...	...
Carboys, extra, per cwt...	...	1.25	1.50	1.75	2.00
66°					
Tank cars, approximate net weight, 100,000 lbs. per ton	16.00	...	...	...	...
Drums, extra, per ton....	20.00	...	...	...	...
Carboys, extra, per cwt...	1.35	1.75	2.25	2.50	2.75
98%					
Tank cars, approximate Net weight, 110,000 lbs. per ton	17.00	...	...	...	...
Carboys, extra, per cwt...	...	4.00	4.50	5.00	5.00
Oleum 20%					
Tank cars, approximate net weight, 115,000 lbs. per ton	17.75	...	...	...	...
Carboys, extra, per cwt...	...	4.00	4.50	5.00	5.00
Carboys— 12 gallons.....	5.00	Each			
Drums—110 gallons.....	20.00				

F.o.b. Monsanto, Ill.

All inquiries should be referred to St. Louis concerning large quantities and for other concentrations not listed above.

CONTRACTS will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

60° Beaume (55)
Clear and colorless liquid.
Specific gravity: 1.700 at 60° F.
Nitrates: free by ferrous sulfate test.
Iron: 0.05% maximum.
Strength: 77.67% plus or minus 0.2%.
Carboys: 170 pounds net.
Drums: 1,400 pounds net.

66° Beaume (55A)
Specific gravity: 1.835 at 60° F.
Nitrates: free by ferrous sulfate test.
Iron: 0.05% maximum.
Strength 93.19% plus or minus 0.2%.
Carboys: 180 pounds net.
Drums: 1,450 pounds net.

98 per cent (55B)
Specific gravity: 1.840 at 60° F.
Nitrates: free by ferrous sulfate test.
Iron: 0.05% maximum.
Strength 98% plus or minus 0.2%.

0683590

TOWOLDMON0041674
WATER_PCB-00026143

Carboys: 185 pounds net.
Drums: 1,500 pounds net.

Oleum 20% or Fuming Sulfuric Acid (55D)
Specific gravity: 1.880 at 60° F.
Strength: 104.5% plus or minus 0.2%.
Carboys: 190 pounds net.
Drums: 1,500 pounds net.

Sulfuric acid of other strengths and standards of purity can be furnished to meet individual requirements.

Derivation: Manufactured from pure brimstone in the above mentioned strengths, or to meet the requirements of the consumer.

Uses: In most industries, but extensively in steel mills, enameling works, oil refineries, pigment works, by-products gas plants, fertilizer plants, etc. Shipped from our Monsanto, Illinois, plant in carboys, drums or in our own fleet of tank cars.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

American Zinc Lead & Smelting Co., East St. Louis, Ill.
Central Chemical Co., Chicago, Ill.
Eagle Picher Lead Co., Hillsboro, Ill.
General Chemical Co., East St. Louis, Ill.
Grasselli Chemical Co., Cleveland Ohio.
Hegeler Zinc Co., Danville, Ill.
Mathiessen & Hegeler Zinc Co., LaSalle, Ill.
National Zinc Co., Bartlesville, Okla.
New Jersey Zinc Co., DePue, Ill.
Ozark Chemical Co., Tulsa, Okla.
Southern Acid & Sulphur Co., Little Rock, Ark. and Port Arthur, Texas.
Texas Chemical Co., Houston, Texas.
United Chemical Co., Dallas, Texas.

0683591

TOWOLDMON0041675
WATER_PCB-00026144

Telegraphic Code:
1.210 to 1.400 "Electro"
1.835 "Electryte"

ACID, BATTERY

(ELECTROLYTE)

	Car lots	20 carboy lots	10 carboy lots	5 carboy lots	less
S.g. 1.210 to 1.400 (225-0-0)					
Carboys extra, per cwt.....	$1.10	1.50	1.75	2.25	2.50
S.g. 1.835 (215-0-2)					
Carboys extra, per cwt.....	1.35	1.75	2.25	2.50	2.75

F.o.b. Monsanto, Illinois.

TERMS: 30 days net.
For weight of carboys, see below.

CONTRACTS will be taken over twelve months without protection.

MONSANTO SPECIFICATIONS

Color: water white.
Purity: nearly 100%.

Electrolyte is sulfuric acid made from pure brimstone, especially adapted to the needs of the storage battery trade. Various strengths can be furnished to meet the needs of the individual purchaser.

The carboys hold 12 gallons and contain acid per the below list:

Specific gravity	Net weight	Code
1.210	121 pounds	225-0-0
1.225	122 pounds	225-0-0
1.300	130 pounds	225-0-0
1.335	133 pounds	225-0-0
1.360	136 pounds	225-0-0
1.400	140 pounds	225-0-0
1.835	183 pounds	215-0-2

COMPETITIVE MANUFACTURERS

General Chemical Co., Chicago, Ill.
The Grasselli Chemical Co., Chicago, Ill.
Central Chemical Co., Chicago, Ill.
National Zinc Co., Bartlesville, Okla.

0683592

TOWOLDMON0041676
WATER_PCB-00026145

Telegraphic Code:
"Sulfcip"

SULFURIC ACID C. P.

Spot Sales—Consumers	172-lb. lots	90-lb. lots
12-gal. carboys, extra, per lb. (Approx. 172 lbs. net)	$0.06	...
Case of 10x5 pt. g. s. bottles, extra, per lb. (Approx. 90 lbs. net)	...	.08

Contract—consumers and carlots—½c per lb. less than above schedule.

Open market—jobbers—1c per lb. less than above schedule.

Contract—jobbers—1½c per lb. less than above schedule.

For shipment from St. Paul, Minn., 1c a lb. higher than above schedule.

" " " Atlanta, Ga., 2½c a lb. higher than above schedule.

" " " Birmingham, Ala., 2½c a lb. higher than above schedule.

" " " New Orleans, La., 3c a lb. higher than above schedule.

F.o.b. Monsanto, Ill.

Beaver Falls, Pa.	East Chicago, Ind.
Boston, Mass.	Easton, Pa.
Buffalo, N. Y.	Milwaukee, Wisc.
Chicago, Ill.	New York, N. Y.
Cincinnati, Ohio.	Philadelphia, Pa.
Cleveland, Ohio.	Providence, R. I.
Detroit, Mich.	Pittsburgh, Pa.

If essential and desirable to meet competition, freight may be equalized with any other point of production and distribution.

Terms: 1% 10 days—net 30 days.

MONSANTO SPECIFICATIONS

H_2SO_4	95% approx.
Sp. Gr.	1.835 approx.
N. V. M.	0.0005%
Nitric Acid (HNO_3)	0.001 %
Selenium (Se)	0.002 %
Reducing Matter (SO_3)	0.000 %
Hydrochloric Acid (HCl)	0.003 %
Lead (Pb)	0.003 %
Heavy Metals	0.000 %
Iron (Fe)	0.0001%
Ammonium Salts (NH_3)	0.001 %
Arsenic (As_2O_3)	0.000005%

Containers will be charged at the following prices, returnable for full credit, provided freight charges are prepaid to our works, and that containers and cases are in good condition:

Carboys, stoppers intact (domestic and foreign).....$5.00 each
Cases (only) containing 10x5 pt. glass stoppered bottles (domestic and foreign)..... 2.00 each
5 pint bottles, stoppers intact (extra of cases)..... .35 each

TOWOLDMON0041677
WATER_PCB-00026146

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

General Chemical Co., New York.
Grasselli Chemical Co., New York.
Pennsylvania Salt Mfg. Co., New York.
J. T. Baker Chemical Co., Phillipsburg, N. J.
Chas. Cooper & Co., New York.

0683594

TOWOLDMON0041678
WATER_PCB-00026147

Telegraphic Code:
"Nitricip"

NITRIC ACID C. P.

Spot Sales—Consumers	132-lb. lots	70-lb. lots
12-gal. carboys, extra, per lb. (Approx. 132 lbs. net)	.11	...
Case of 10x5 pt. g. s. bottles, extra, per lb. (Approx. 70 lbs. net)	...	.13

Contract—consumers and carlots—¼c per lb. less than above schedule.

Open market—jobbers—1c per lb. less than above schedule.

Contract—jobbers—1½c per lb. less than above schedule.

For shipment from St. Paul, Minn., 1c a lb. higher than above schedule.

" " " Atlanta, Ga., 2½c a lb. higher than above schedule.

" " " Birmingham, Ala., 2½c a lb. higher than above schedule.

" " " New Orleans, La., 3c a lb. higher than above schedule.

F.o.b. Monsanto, Ill.

Boston, Mass.	East Chicago, Ind.
Buffalo, N. Y.	Easton, Pa.
Chicago, Ill.	Milwaukee, Wisc.
Cincinnati, Ohio.	New York, N. Y.
Cleveland, Ohio.	Philadelphia, Pa.
Detroit, Mich.	Providence, R. I.

Pittsburgh, Pa.

If essential and desirable to meet competition, freight may be equalized with any other point of production and distribution.

Terms: 1% 10 days—net 30 days.

MONSANTO SPECIFICATIONS

Colorless liquid, free from suspended matter

Strength (HNO_3)	68 to 70%
Non-Volatile matter	0.0005% Max.
Sulphate (SO_4)	0.0002% Max.
Chloride (Cl)	0.00007% Max.
Arsenic (As)	0.000003% Max.
Heavy Metals (as lead)	0.0005% Max.
Heavy Metals (as iron)	0.0001% Max.

(Monsanto specifications conform with "A.C.S." specifications.)

Containers will be charged at the following prices, returnable for full credit, provided freight charges are prepaid to our works, and that containers and cases are in good condition:

Carboys, stoppers intact (domestic and foreign).....$5.00 each

Cases (only) containing 10x5 pt. glass stoppered bottles (domestic and foreign)..... 2.00 each

5 pint bottles, stoppers intact (extra of cases)..... .35 each

0683595

TOWOLDMON0041679
WATER_PCB-00026148

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

General Chemical Co., New York.
Grasselli Chemical Co., New York.
Pennsylvania Salt Mfg. Co., New York.
J. T. Baker Chemical Co., Phillipsburg, N. J.
Chas. Cooper & Co., New York.

0683596

TOWOLDMON0041680
WATER_PCB-00026149

Telegraphic Code:
"Hydrocip"

HYDROCHLORIC ACID C. P.

Spot Sales—Consumers	114-lb. lots	60-lb. lots
12-gal. carboys, extra, per lb. (Approx. 114 lbs. net)	$0.06	...
Case of 10x5 pt. g. s. bottles, extra, per lb. (Approx. 60 lbs. net)	...	.08

Contract—consumers and carlots—½c per lb. less than above schedule.

Open market—jobbers—1c per lb. less than above schedule.

Contract—jobbers—1½c per lb. less than above schedule.

For shipment from St. Paul, Minn., 1c a lb. higher than above schedule.

" " " Atlanta, Ga., 2½c a lb. higher than above schedule.

" " " Birmingham, Ala., 2½c a lb. higher than above schedule.

" " " New Orleans, La., 3c a lb. higher than above schedule.

F.o.b. Monsanto, Ill.

Beaver Falls, Pa.	East Chicago, Ind.
Boston, Mass.	Easton, Pa.
Buffalo, N. Y.	Milwaukee, Wisc.
Chicago, Ill.	New York, N. Y.
Cincinnati, Ohio.	Philadelphia, Pa.
Cleveland, Ohio.	Providence, R. I.
Detroit, Mich.	Pittsburgh, Pa.

If essential and desirable to meet competition, freight may be equalized with any other point of production and distribution.

Terms: 1% 10 days—net 30 days.

MONSANTO SPECIFICATIONS

Colorless liquid, free from suspended matter.

Strength (HCl)	35% Minimum
Non-Volatile matter	0.0005% Maximum
Sulphate (SO_4)	0.0002% Maximum
Free Chlorine (Cl)	0.0002% Maximum
Sulphite (SO_2)	0.003% Maximum
Arsenic (As)	0.00001% Maximum
Iron (Fe)	0.0001% Maximum
Heavy Metals (as lead)	0.005% Maximum

(Monsanto specifications conform with "A.C.S." specifications.)

Containers will be charged at the following prices, returnable for full credit, provided freight charges are prepaid to our works, and that containers and cases are in good condition:

Carboys, stoppers intact (domestic and foreign)..... $5.00 each
Cases (only) containing 10x5 pt. glass stoppered bottles (domestic and foreign)..... 2.00 each
5 pint bottles, stoppers intact (extra of cases)..... .35 each

0683597

TOWOLDMON0041681
WATER_PCB-00026150

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

General Chemical Co., New York.
Grasselli Chemical Co., New York.
Pennsylvania Salt Mfg. Co., New York.
J. T. Baker Chemical Co., Phillipsburg, N. J.
Chas. Cooper & Co., New York.

0683598

TOWOLDMON0041682
WATER_PCB-00026151

SULPHUR MONO CHLORIDE

(Liquid)

Shipping Containers: Tank cars, drums, carboys.
F.o.b. Monsanto, Ill.

All inquiries should be referred to St. Louis.

MONSANTO SPECIFICATIONS

Appearance: Orange to dark amber colored liquid.
Sulphur Mono Chloride: 98.00% minimum.
Sulphur (free): 2.00% minimum.

Derivation: By passing chlorine over molten sulphur.
Uses: Rubber industry for vulcanizing; manufacturing vulcanized oils; rubber substitutes and cements; purifying sugar juices, sulphur solvent; manufacture of military poison gas.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Dow Chemical Co., Midland, Mich.
Elko Chemical Co., Nitro, W. Va.
Hooker Electrochemical Co., Niagara Falls, N. Y.
Roessler & Hasslacher Chemical Co., Niagara Falls & Perth Amboy, N. J.
Warner Chemical Co., New York City.

0683599

TOWOLDMON0041683
WATER_PCB-00026152

SULPHUR DI CHLORIDE

(Liquid)

Shipping Containers: Tank Cars, Drums.
F.o.b. Monsanto, Ill.

All inquiries should be referred to St. Louis.

MONSANTO SPECIFICATIONS

Appearance: Red to dark brown liquid.
Total Chlorine: 68.00% minimum.

Uses: Rubber industry for vulcanizing; manufacturing vulcanized oils; rubber substitute and cements; purifying sugar juices and sulphur solvent.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Dow Chemical Company, Midland, Michigan.
Hooker Electrochemical Co., Niagara Falls, N. Y.

0683600

TOWOLDMON0041684
WATER_PCB-00026153

ZINC CHLORIDE SOLUTION 50%

Liquid

	For lumber trade	For hard fiber trade	drum lots	10-cby. lots	5-cby. lots	less
Tank cars, approximate net weight, 50 tons, per cwt.....	$2.15	2.35	...	...	...	...
110-gal. drums extra, approximate net wt. 1,500 lbs., per cwt..	...	...	3.75	...	...	...
55-gal. drums extra, approximate net wt. 750 lbs., per cwt...	...	...	4.00	...	...	...
12-gal. carboys extra, approximate net wt. 160 lbs., per cwt...	...	...	...	4.75	5.00	5.25

F.o.b. Monsanto, Ill.

Inquiries for tank cars should be referred to St. Louis.

CONTRACTS will be taken over twelve months, without protection.

MONSANTO SPECIFICATIONS

This material can be furnished as per specifications of American Wood Preservers' Association, or to meet special requirements.

Light straw colored liquid.
Specific gravity: 1.54 to 1.60 at 15° C. for the 50%.
Zinc chloride: 50% or 70% plus or minus 0.2%.
Acidity: none.
Zinc sulfate: 0.5% maximum.
Iron: 0.1% maximum.
Basicity (as ZnO): 0.2% maximum.

Derived from the action of hydrochloric acid on zinc.
Manufactured in solution of 50% or 70% and shipped in carboys, drums or tank cars of our own fleet.
Used as a wood preservative, as a soldering flux and in the manufacture of hard fiber products.

COMPETITIVE MANUFACTURERS

Grasselli Chemical Co., Cleveland, O. (Chicago or Cleveland works).
General Chemical Co., New York (Chicago works).
Arkansas Wood Preservers Co., Little Rock, Ark.
American Smelting & Refining Co., Omaha, Nebr., Perth Amboy, N. J. and San Francisco.
Rohm & Haas, Philadelphia, Pa.

0683601

TOWOLDMON0041685
WATER_PCB-00026154

BENZOATE OF SODA

U. S. P.

	2,000-lb. lots or on contract	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots	less
100-lb. kegs incl., per lb.	$0.45	.46	.47	...	...	...
50-lb. drums incl., per lb.	.47	.48	.49	.50	...	...
25-lb. drums incl., per lb.	.49	.50	.51	.52	.52	...
10-lb. cartons incl., per lb.	...	...	...	.53	.54	.56
5-lb. cartons incl., per lb.	...	...	...	.53	.54	.56
1-lb. cartons incl., per lb.	...	...	...	.56	.57	.59

F.o.b. any point where stocks are carried. Freight allowed to any destination on quantities of 25 pounds and over.

CONTRACTS taken for twelve months for 1,000 lbs. and over with price protection.

MONSANTO SPECIFICATIONS

White amorphous powder or granules.

Odor: None.

Solubility: 1 gram soluble in 1.8 c.c. water (1.4 c.c. boiling water); 61 c.c. alcohol, at 25° C.

Purity: 99.4%.

Benzoate of Soda is used for preserving food products, especially fruit juices, fruit syrups and margarine. It is also used for preserving chewing gum, plug and cigarette tobacco, and such products as pastes and medicinal preparations.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Carus Chemical Co., LaSalle, Ill.
E. I. duPont de Nemours & Co., Wilmington, Del.
Heyden Chemical Corp., New York City.
Hooker Electro Chemical Co., New York City.
Seydel Mfg. Co., Jersey City, N. J.

0683602

TOWOLDMON0041686
WATER_PCB-00026155

BENZOIC ACID

U. S. P.

	10,000-lb. lots or on contract	1,000 lb. lots	100-lb. lots	50-lb. lots	25-lb. lots	less
100-lb. kegs incl., per lb.	$0.59	.60	.61	...	...	...
50-lb. drums incl., per lb.	.60	.61	.62	.62	...	...
25-lb. drums incl., per lb.	.61	.62	.63	.63	.63	...
10-lb. cartons incl., per lb.	.64	.65	.66	.66	.66	.66
5-lb. cartons incl., per lb.	.64	.65	.66	.66	.66	.66

F.o.b. any point where stocks are carried. Freight allowed to any destination on quantities of 25 pounds and over.

CONTRACTS taken over twelve months with price protection.

MONSANTO SPECIFICATIONS

White powder or flakes.

Odor: None.

Melting point: 120-122° C.

Solubility: 1 gram soluble in 2.3 c.c. alcohol at room temperature; 1 gram soluble in 275 c.c. water at room temperature.

Purity: 99.5%.

USES: For preserving food products, especially fruit juices, fruit syrups and margarine. It is also used for preserving chewing gum, plug and cigarette tobacco, and such products as pastes and medicinal preparations. As an intermediate for certain dyestuffs.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Carus Chemical Co., LaSalle, Ill.
E. I. duPont de Nemours & Co., Wilmington, Del.
Heyden Chemical Corp., New York City.
Hooker Electro Chemical Co., New York City.
Seydel Mfg. Co., Jersey City, N. J.

0683603

TOWOLDMON0041687
WATER_PCB-00026156

AMMONIUM BENZOATE

	2,000-lb. lots or on contract	1,000-lb. lots	100-lb. lots	50-lb. lots	25-lb. lots	less
100-lb. kegs incl., per lb.	$0.55	.56	.57	...	...	...
50-lb. drums incl., per lb.	.57	.58	.59	.60	...	...
25-lb. drums incl., per lb.	.59	.60	.61	.62	.62	...
10-lb. cartons incl., per lb.	...	...	...	.63	.64	.66
5-lb. cartons incl., per lb.	...	...	...	.63	.64	.66
1-lb. cartons incl., per lb.	...	...	...	.66	.67	.69

F.o.b. any point where stocks are carried. Freight allowed to any destination on quantities of 25 pounds and over.

CONTRACTS taken over twelve months for 1,000 lbs. and over with price protection.

MONSANTO SPECIFICATIONS

White crystalline powder.

Odor: None.

Solubility: 1 gram soluble in 10 c.c. water; 8 c.c. glycerin; 35.5 c.c. alcohol. at 25° C.

Purity: 98% minimum.

USES: Food preservative, diuretic and antirheumatic in medicines.

Note: Preserve in well closed containers in cool place.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Merck & Co., Rahway, N. J.
Mallinckrodt Chemical Works, St. Louis.

0683604

TOWOLDMON0041688
WATER_PCB-00026157

BENZYL ALCOHOL

(Technical)

50-gal. drums extra (approx. 438 lbs.), per lb.	$0.53
10-gal. carboys extra (approx. 88 lbs.), per lb.	.63
5-gal. cans incl. (approx. 44 lbs.), per lb.	.63
10-lb. tins incl., per lb.	.68
10-lb. bottles (bottles and packing extra), per lb.	.68

F.o.b. New York or freight equalized with New York.

CONTRACTS taken at 5c a lb. less than above schedule with price protection.

MONSANTO SPECIFICATIONS

Faintly yellowish liquid.

Boiling point: 92-95%; distills under 210° C. None under 204° C.

Specific Gravity at 20° C.: 1.050-1.058.

This is known as "Technical" grade.

USES: In perfumes, organic synthesis, intermediates, esters.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Hooker Electro Chemical Co., New York City.
Seydel Chemical Co., Jersey City, N. J.

0683605

TOWOLDMON0041689
WATER_PCB-00026158

BENZALDEHYDE TECHNICAL

	500-lb. lots or on contract	100-lb. lots	50-lb. lots
500-lb. tin-lined iron drums, extra, per lb.	$0.65	...	...
100-lb. glass carboys, extra, per lb.	.65	.70	...
50-lb. glass carboys, extra, per lb.	.65	.70	.75

F.o.b. New York or freight equalized with New York.

CONTRACTS for not less than 500 lbs. over twelve months with price protection.

MONSANTO SPECIFICATIONS

Water-white liquid (tendency to discolor in daylight and become slightly yellow).

Boiling point: 90% distills within 3°, between 177° and 182° C.

Specific gravity: 1.0425-1.0440.

Purity: 98.0% minimum.

Chlorine: 0.2% maximum, as Chlorbenzaldehyde.

Does not contain Benzyl Chloride, Benzalchloride or Benzotrichloride.

USES: This product is used principally as an intermediate for making dyestuffs, of which the most important is Malachite Green. It is also used for other dyes of the Malachite series, such as Brilliant Green. Benzaldehyde is also used in the manufacture of m-nitrobenzaldehyde which is used for Patent Blue and Cyanol F. F. It enters into the manufacture of m-nitrobenzoylchloride, and for making p-nitroaniline, which is very much used in making Azo dyes. (We doubt however, that Benzaldehyde is used for this purpose in this country.)

Another important trade which should be solicited is Manufacturing Pharmacists, who use Benzaldehyde for certain pharmaceuticals.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Fries Brothers, New York City.
Heyden Chemical Corp., New York City.
Semet Solvay Co., Syracuse, N. Y.

0683606

TOWOLDMON0041690
WATER_PCB-00026159

BENZOYL CHLORIDE

	1,000-lb. lots or on contract	100-lb. lots
100-lb. glass carboys, extra, per lb.....	$0.60	.65

F.o.b. New York or freight equalized with New York.

CONTRACTS will be taken over twelve months with price protection.

MONSANTO SPECIFICATIONS

Water-white liquid.
Melting point: 1° C. minimum.
Boiling point: 90%, distills within 2°, between 196° and 199° C.
Specific gravity at 15° C: 1.2188.

USES: Benzoyl Chloride is used as an intermediate in the manufacture of certain dyestuffs, in synthetic drugs and perfumes, condensation products with indigo.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Dow Chemical Co., Midland, Mich.
Heyden Chemical Corp., New York City.
Hooker Electro Chemical Co., New York City.

0683607

TOWOLDMON0041691
WATER_PCB-00026160

PLASTICIZERS

SANTICIZER ONE

(Toluene Sulfon Anilid)

Crystalline Powder

	1,000-lb. lots	less
175-lb. bbls. incl., per lb.	$0.40	.45
Smaller packages, packing extra, per lb.		.45

F.o.b. St. Louis.

MONSANTO SPECIFICATIONS

Slightly brownish, fine crystalline powder.
Crystallizing point: 97° C. minimum.
Acidity: Calculated as acetic acid 0.05% maximum.

71B

SANTICIZER THREE

(Ethyl Toluene Sulfonamide)

Crystalline Mass

	1,000-lb. lots	less
500-lb. indestructible drums, extra returnable, per lb.	$0.55	.60
Smaller packages, packing extra, per lb.		.60

F.o.b. St. Louis.

MONSANTO SPECIFICATIONS

Slightly yellowish or brownish crystalline mass.
Crystallizing point: 45° C. minimum.
Acidity: Calculated as acetic acid 0.1% maximum.

71C

SANTICIZER EIGHT

(Ethyl Ortho-Para Toluene Sulfonamide)

Amber Colored Liquid

	1,000-lb. lots	less
500-lb. indestructible drums, extra returnable, per lb.	$0.50	.55
Smaller packages, packing extra, per lb.		.55

F.o.b. St. Louis.

0683608

TOWOLDMON0041692
WATER_PCB-00026161

MONSANTO SPECIFICATIONS

Light amber colored liquid.
Crystallizing point: 18° C. minimum.
Acidity: Calculated as acetic acid 0.1% maximum.

The plasticizer field is growing coincident with the rapid development of lacquers. The three products listed here represent such as we are now in a position to supply in quantity. They are likewise products which we are well positioned to manufacture. The development of this field therefore represents a very logical move for us.

AVAILABLE LITERATURE

None.

0683609

TOWOLDMON0041693
WATER_PCB-00026162

PLASTICIZERS

SANTICIZER ONE

(Toluene Sulfon Anilid)

Crystalline Powder

	175-lb. lots	less
175-lb. bbls. incl., per lb.	$0.50	...
Smaller packages, packing extra, per lb.	...	.5%

F.o.b. St. Louis.

MONSANTO SPECIFICATIONS

Slightly brownish, fine crystalline powder.
Crystallizing point: 97° C. minimum.
Acidity: Calculated as acetic acid 0.05% maximum.

71B

SANTICIZER THREE

(Ethyl Toluene Sulfonamide)

Crystalline Mass

	500-lb. lots	less
500-lb. indestructible drums, extra returnable, per lb.	$0.65	...
Smaller packages, packing extra, per lb.	...	.70

F.o.b St. Louis.

MONSANTO SPECIFICATIONS

Slightly yellowish or brownish crystalline mass.
Crystallizing point: 45° C. minimum.
Acidity: Calculated as acetic acid 0.1% maximum.

71C

SANTICIZER EIGHT

(Ethyl Ortho-Para Toluene Sulfonamide)
Amber Colored Liquid

	500-lb. lots	less
500-lb. indestructible drums, extra returnable, per lb.	$0.60	...
Smaller packages, packing extra, per lb.	...	.65

F.o.b. St. Louis.

0683610

TOWOLDMON0041694
WATER_PCB-00026163

MONSANTO SPECIFICATIONS

Light amber colored liquid.
Crystallizing point: 12° C. minimum.
Acidity: Calculated as acetic acid 0.1% maximum.

The plasticizer field is growing coincident with the rapid development of lacquers. The three products listed here represent such as we are now in a position to supply in quantity. They are likewise products which we are well positioned to manufacture. The development of this field therefore represents a very logical move for us.

AVAILABLE LITERATURE

None.

0683611

TOWOLDMON0041695
WATER_PCB-00026164

PALE CRESYLIC ACID 97-99%

CM-3 GRADE—DUTY FREE

FROM ENGLAND, C.I.F. BASIS

ICC drums, not returnable	50,000 gal. lots	10,000 gal. lots	3,000 gal. lots	1,000 gal. lots	500 gal. lots	less
110-gal. drums incl., per gal.	$0.58	.60	.62	.63	...	...
55-gal. drums incl., per gal.	.61	.63	.65	.66	...	...

TERMS of payment direct shipment from England: Net cash on receipt of invoice, or--net cash against shipping documents where credit is not approved.

NEW YORK STOCK, F.O.B. BASIS, NEW YORK

ICC drums, not returnable	50,000 gal. lots	10,000 gal. lots	3,000 gal. lots	1,000 gal. lots	500 gal. lots	less
110-gal. drums incl., per gal.	$0.61	.63	.65	.66	.67	.69
55-gal. drums incl., per gal.	.64	.66	.68	.69	.70	.72

TERMS of payment shipments from New York stock: Net cash 30 days from date of shipment from New York.

SPECIFICATIONS

Straw to light brown colored liquid. Darkens upon exposure to light and air.
Odor: clean.
Specific gravity: 1.025 (approx.) at 15° C.
Boiling point: 90% distills between 208° and 225° C. Not more than 75% distills below 215° C.
Solubility in caustic soda: Gives a clear solution with twice its volume of caustic soda solution of specific gravity 1.100. In caustic soda solution of any strength this quality does not show red coloration.
A mixture of Cresols, Xylenols and homologues of Xylenols, together with about 2-3% hydrocarbons and basic substances; approximately 97-99% Tar Acids.

PALE CRESYLIC ACID is used to a very large extent in soap manufacture; for disinfecting purposes of all kinds in the mineral flotation process; as scrubbing liquid for the recovery of alcohol and other vapors; as a paint remover, and for manufacture of resins and dyestuffs.

AVAILABLE LITERATURE

None.

COMPETITIVE SOURCES

Domestic

Barrett Co., New York.
U. S. Steel Co., New York.
(Sold by American Cyanamid Co., New York.)
International Combustion Tar & Chemical Co., New York.

Importers

American Cyanamid Co., New York.
American-British Chemical Co., New York.
Jordan & Brother, Brooklyn, N. Y.
A. Klipstein & Co., New York.
Baird & McGuire, Holbrook, Mass.

0683612

TOWOLDMON0041696
WATER_PCB-00026165

PALE CRESYLIC ACID 97-99% SPECIAL

(CMS-0 SPECIAL)

FROM ENGLAND, C.I.F. NEW YORK, BOSTON OR PHILADELPHIA.

ICC drums, not returnable	50,000 gal lots	10,000 gal. lots	3,000 gal. lots	1,000 gal. lots	500 gal. lots	less
110-gal. drums incl., per gal.	$0.58	.60	.62	.63	...	...
55-gal. drums incl., per gal.	.61	.63	.65	.66	...	...

Before offering large quantities, cable Monsanto, Ltd., London, for confirmation of quantity and price.

TERMS of payment direct shipment from England: Net cash on receipt of invoice, or—net cash against shipping documents where credit is not approved.

NEW YORK STOCK, F.O.B. BASIS, NEW YORK

ICC drums, not returnable	50,000 gal lots	10,000 gal. lots	3,000 gal. lots	1,000 gal. lots	500 gal. lots	less
110-gal. drums incl., per gal.	$0.61	.63	.65	.66	.67	.69
55-gal. drums incl., per gal.	.64	.66	.68	.69	.70	.72

TERMS of payment shipments from New York stock: Net cash 30 days from date of shipment from New York.

SPECIFICATIONS

Pale straw to light brown colored liquid. Darkens upon exposure to light and air.
Odor: clean.
Specific gravity: 1.025-1.030 (approx.) at 15° C.
Boiling point: 90% distills between 206°-230° C. and not more than 75% distills below 215° C.
Solubility in caustic soda: Gives clear solution with twice its volume of caustic soda solution of specific gravity 1.100. In caustic soda solution any strength this quality does not show red coloration.
Tar acid content: 97-99%.
A mixture of Cresols, Xylenols and Homologues of Xylenols, together with 2-3% of hydrocarbons and basic substances. Contains more ortho cresol than C.M.3.

PALE CRESYLIC ACID 97-99% SPECIAL—for exclusive use of disinfectant manufacturers.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

None.

0683613

TOWOLDMON0041697
WATER_PCB-00026166

PALE CRESYLIC ACID 97-99%

F-2 GRADE

FROM ENGLAND, C.I.F. NEW YORK, PHILADELPHIA OR BOSTON.

ICC drums not returnable	Carloads (3,000-gal.)	1,000-gal. lots	500-gal. lots
110-gal. drums incl., per gal.	$0.43	.44	.46
55-gal. drums incl., per gal.	.46	.47	.49

TERMS: Direct shipment from England: Net cash on receipt of invoice, or—net cash against shipping documents where credit is not approved.

NEW YORK STOCK, F.O.B. BASIS, NEW YORK

ICC drums not returnable	500-gal. lots	less
110-gal. drums incl., per gal.	$0.48	.50
55-gal. drums incl., per gal.	.51	.53

TERMS: Net cash 30 days from date of shipment from New York.

SPECIFICATIONS

Straw to light brown liquid. Darkens upon exposure to light and air.
Odor: clean.
Specific Gravity: 1.025 (approx.) at 15°.
Boiling range: Approx. 90% distils between 205° and 225° C. Not more than 75% distils below 215° C.

This is not as uniform as the CM-3 grade, and is used principally in the disinfectant trade.

AVAILABLE LITERATURE

None.

COMPETITIVE SOURCES

Domestic

Barrett Co., New York.
U. S. Steel Co., New York.
(Sold by American Cyanamid Co., New York.)
International Combustion Tar & Chemical Co., New York.

Importers:

American Cyanamid Co., New York.
American-British Chemical Co., New York.
Jordan & Brother, Brooklyn, N. Y.
A. Klipstein & Co., New York
Baird & McGuire, Holbrook, Mass.

0683614

TOWOLDMON0041698
WATER_PCB-00026167

Telegraphic Code:
"Cmhigh."

HIGH BOILING CRESYLIC ACID

(DUTY FREE CRESYLIC)

FROM ENGLAND, C.I.F. NEW YORK, PHILADELPHIA OR BOSTON.

I.C.C. drums not returnable.	1,000-gal. lots	500-gal. lots	Less
110-gal. drums incl., per gal.	$0.65	.67	...
55-gal. drums incl., per gal.	.68	.70	...

TERMS: Net cash on receipt of invoice, or net cash against shipping documents where credit is not approved.

Orders or inquiries for more than 500-gallon lots to be referred to St. Louis for shipping dates.

FROM NEW YORK STOCK, F.O.B. NEW YORK

I.C.C. drums not returnable.	1,000-gal. lots	500-gal. lots	Less
110-gal. drums incl., per gal.	$0.68	.70	.73

TERMS: Net cash 30 days from date of shipment from New York.

SPECIFICATIONS

A clear dark straw to light brown liquid, with a green fluorescence.

Specific gravity: 1.020 (approx.) at 15° C.

Boiling point: 90% distills between 225° and 275° C.

Solubility in caustic soda: The special feature of this quality is that in a solution of caustic soda of any strength it does not develop a red coloration.

A mixture of Xylenols and Homologues of Xylenols together with about 8-10% of hydrocarbons and basic substances and containing 90-92% tar acids.

HIGH BOILING CRESYLIC ACID is used in high coefficient disinfectants and for reinforcing tar acid oils used in lower coefficient disinfectants.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

0683615

TOWOLDMON0041699
WATER_PCB-00026168

SPECIAL HIGH BOILING CRESYLIC ACID

(DUTY FREE CRESYLIC)

FROM ENGLAND, C.I.F. NEW YORK, BOSTON or PHILADELPHIA

ICC drums, not returnable.

110-gal. drums incl., per gal. (any quantity).....**$0.70**

TERMS: Net cash on receipt of invoice, or net cash against shipping documents where credit is not approved.

For the time being London's manufacturing capacity is 5,000 gallons a month. Inquiries for quantity lots should be referred to St. Louis for shipping dates.

SPECIFICATIONS

Dark Brown Liquid.
Specific Gravity at 15.5° C.: 1.057.
Boiling Range: 95% distills between 218¼° and 247¼° C.
Moisture content: 0.05%.

SPECIAL HIGH BOILING CRESYLIC ACID is used in high coefficient disinfectants and for reinforcing tar acid oils used in lower coefficient disinfectants. By the use of this special product a coefficient of 21 (Rideal-Walker method) may be obtained.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

None.

0683616

TOWOLDMON0041700
WATER_PCB-00026169

META CRESOL PURE, 98-100%

DIRECT SHIPMENTS FROM ENGLAND. C.I.F. BASIS

	5,000-lb. lots	2,500-lb. lots	1,000-lb. lots	500-lb. lots	100-lb. lots	less
500-lb. drums incl., per lb	$0.64	.66	.68	.71	.73	.84
100-lb. drums incl., per lb	.64	.66	.68	.71	.73	.84
50-lb. drums incl., per lb	.64	.66	.68	.71	.73	.84

DUTY: At present, subject to duty of 20% on foreign valuation, plus 3½c a pound specific.

TERMS: Net cash on receipt of invoice, or—net cash against shipping documents where credit is not approved.

NEW YORK STOCK F.O.B. NEW YORK BASIS (Small quantity only in stock).

	100-lb. lots	less
100-lb. drums incl., per lb	$1.00	...
50-lb. drums incl., per lb	1.00	1.10

TERMS: Net cash 30 days from date of shipment from New York, or net cash against shipping documents.

SPECIFICATIONS

Colorless liquid, which becomes faintly brown on keeping.
Odor: Pure and sweet, no trace of unpleasantness.
Specific gravity: 1.040-1.045 at 15° C.
Crystallizing point: 10.5-12° C. after removal of any traces of moisture by distillation.
Boiling point: 202° C. (corr.) not above 203° C. when 90% distills over.
Meta Cresol: 98-100%.
Solubility: Soluble clear in all proportions of 10% caustic soda solution.
Impurities: Traces of ortho and para-cresol, usually not exceeding a total of 1%.

META CRESOL is used in the manufacture of synthetic perfumes (Artificial Musk) and nitro-derivatives, Meta-Cresol ethers and esters, etc.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683617

TOWOLDMON0041701
WATER_PCB-00026170

Telegraphic Code:
"Metapure"

META CRESOL PURE, 98-100%

DIRECT SHIPMENTS FROM ENGLAND, C.I.F. BASIS

	2,500-lb. lots	1,000-lb. lots	500-lb. lots	100-lb. lots	less
500-lb. drums incl., per lb	$0.54	.57	.60	...	...
100-lb. drums incl., per lb	.54	.57	.60	.65	...
50-lb. drums incl., per lb	.54	.57	.60	.65	.75

DUTY: At present, subject to duty of 20% on foreign valuation, plus 3½c a pound specific.

TERMS: Net cash on receipt of invoice, or—net cash against shipping documents where credit is not approved.

NEW YORK STOCK F.O.B. NEW YORK BASIS (Small quantity only in stock).

	100-lb. lots	less
100-lb. drums incl., per lb	$0.00	...
50-lb. drums incl., per lb	.00	1.00

TERMS: Net cash 30 days from date of shipment from New York, or net cash against shipping documents.

SPECIFICATIONS

Colorless liquid, which becomes faintly brown on keeping.
Odor: Pure and sweet, no trace of unpleasantness.
Specific gravity: 1.040-1.045 at 15° C.
Crystallizing point: 10.5-12° C. after removal of any traces of moisture by distillation.
Boiling point: 202° C. (corr.) not above 203° C. when 90% distills over.
Meta Cresol: 98-100%.
Solubility: Soluble clear in all proportions of 10% caustic soda solution.
Impurities: Traces of ortho and para-cresol, usually not exceeding a total of 1%.

META CRESOL is used in the manufacture of synthetic perfumes (Artificial Musk) and nitro-derivatives, Meta-Cresol ethers and esters, etc.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683618

TOWOLDMON0041702
WATER_PCB-00026171

Telegraphic Code:
"Orthopure"

PURE ORTHO CRESOL

DIRECT SHIPMENTS FROM ENGLAND, CIF NEW YORK, PHILADELPHIA OR BOSTON.

	10,000-lb. lots	5,000-lb. lots	1,000-lb. lots	less
336-lb. drums incl., per lb.....	$0.08½	.09	.09½	.10
224-lb. drums incl., per lb.....	.08½	.09	.09½	.11
112-lb. drums incl., per lb.....	.09	.09½	.10	.12
56-lb. drums incl., per lb.....	.09½	.10	.10½	.14
28-lb. drums incl., per lb.....	.10	.10½	.11	.15

DUTY: This item is subject to a duty of 20% on the domestic valuation and 3½c a pound specific.

TERMS: Net cash on receipt of invoice, or net cash against shipping documents where credit is not approved.

NEW YORK STOCK, F.O.B. NEW YORK BASIS.

	2,000-lb. lots	1,000 lb. lots	less
336-lb. drums incl., per lb.....	$0.15¼	.15½	.16

TERMS: Net cash 30 days from date of shipment from New York, or net cash against shipping documents.

SPECIFICATIONS

Appearance: White crystalline mass which may discolor on keeping.
Odor: Clean, not unpleasant.
Crystallizing point: 30°-31° C.
Boiling point: 191° C. Not higher than 192° C. when 90% has distilled over.

PURE ORTHO CRESOL is used chiefly as an intermediate in the manufacture of dyestuffs, also in the manufacture of Cresotinic Acid, Tri Cresyl Phosphates and other synthetic compounds.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Barrett Co., New York.

0683619

TOWOLDMON0041703
WATER_PCB-00026172

Telegraphic Code:
"Parapure"

PARA CRESOL PURE

DIRECT SHIPMENTS FROM ENGLAND, CIF.

	20,000-lb. lots	10,000-lb. lots	5,000-lb. lots	1,000-lb. lots	less
224-lb. drums incl., per lb...	**$0.40**	.41	.42	.45	.50

(Wherever necessary Monsanto, Ltd., will pack in 112-lb. drums at same schedule as above.)

DUTY: At present subject to duty of 20% on foreign valuation, plus 3½c a pound specific.

TERMS: **Net cash on receipt of invoice, or—net cash against shipping documents where credit is not approved.**

F.O.B. New York Stock, duty paid.

	224-lb. lots	50-lb. lots	5-lb. lots	less
224-lb. drums incl., per lb.....	**$0.63**	...	...	...
50-lb. tins incl., per lb.....	...	**.70**	...	...
5-lb. tins incl., per lb.....	...	...	**.80**	...
Less, package and postage extra....	...	...	...	**.90**

TERMS: Net cash 30 days.

SPECIFICATIONS

Loose white crystals which may discolor on standing.
Odor: Characteristic and not unpleasant.
Crystallizing point: 34.5° C. after removal and exclusion of moisture.

PARA CRESOL is now being extensively used as an intermediate in the manufacture of certain dye-stuffs, and also as a starting point in the production of Para-Cresol Methyl Ether, Para Cresyl Acetate (principles of Cananga Essence) and other synthetic products.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683620

TOWOLDMON0041704
WATER_PCB-00026173

Telegraphic Code:
"Pmetaxyl"

PARA CHLOR META XYLENOL

FROM ENGLAND, C.I.F. NEW YORK, BOSTON OR PHILADELPHIA.

	1,000-lbs. and over	500-lbs. and over	less
150-lb. drums in overcasks incl., per lb....	**$0.53**	**.55**	**.58**

DUTY: 40% advalorem and 7c a pound specific, based on schedule price.

TERMS: Net cash against shipping documents or net cash on receipt of invoice.

F.o.b. New York Stock duty paid.

	100-lb. lots	50-lb. lots	10-lb. lots	less
100-lb. drums incl., per lb.....	**$0.95**	...	...	...
50-lb. drums incl., per lb.....	**.95**	**1.05**	...	...
10-lb. tins incl., per lb.....	...	...	**1.15**	...
Less, package and postage extra....	...	...	...	**1.35**

TERMS: Net cash 30 days.

SPECIFICATIONS

White Crystals.
Melting point: 115° C. Minimum.

USES: **Disinfectant intensifier, also possibilty of use as preservative.**

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683621

TOWOLDMON0041705
WATER_PCB-00026174

PURE PYRIDINE

	1,000-lb. lots	500-lb. lots	less
56-lb. tin bottles, in overcases, per lb.....	$0.86	.88	.90

F.o.b. New York.

Lots of approximately 500 lbs. carried in New York Stocks—not dutiable.

TERMS—Net cash 30 days from date of shipment.

SPECIFICATIONS

Water-white liquid.
Odor: Characteristic and basic.
Specific gravity: 0.98 (approx.) at 15° C.
Boiling range: Not less than 95% distills between 115° and 117° C. After exposure to air for a short time sufficient moisture may be absorbed to bring the boiling point down to 113°-115° C. for the first 30% distilled.
Solubility: Completely soluble without turbidity in all proportions of water.

PURE PYRIDINE is used as a solvent and chemical reagent fairly widely, also as a denaturant for alcohol, and medicinally in cases of asthma. The quality of the Pyridine manufactured by us is of a remarkable high order. Except for traces of moisture it is practically chemically pure, and boils at a constant temperature after this trace of moisture is removed. It is unrivalled for all those chemical uses where purity is of first importance, especially in the chemical laboratory.

AVAILABLE LITERATURE

None.

COMPETITIVE SOURCES

Rhodia Chemical Works, New York.

0683622

TOWOLDMON0041706
WATER_PCB-00026175

Telegraphic Code:
"Parachlor"

PARA CHLOR META CRESOL

FROM ENGLAND, C.I.F. NEW YORK, BOSTON OR PHILADELPHIA.

	1,000-lbs. and over	500-lbs. and over	less
150-lb. drums in overcasks incl., per lb....	**$0.53**	**.55**	**.58**

DUTY: 40% advalorem plus 7c a pound specific, based on schedule price.

TERMS: Net cash on receipt of invoice or net cash against shipping documents.

F.O.B. New York, duty paid.

	100-lb. lots	50-lb. lots	10-lb. lots	less
100-lb. drums incl., per lb.....	**$0.95**	...	...	...
50-lb. drums incl., per lb.....	**.95**	**1.05**	...	...
10-lb. tins incl., per lb.....	...	...	**1.15**	...
Less, package and postage extra....	...	...	...	**1.35**

TERMS: Net cash 30 days.

SPECIFICATIONS

White transparent crystals.
Crystallizing point: 63° C. Minimum.

USES: Disinfectant intensifier, also possibility of use as preservative.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683623

TOWOLDMON0041707
WATER_PCB-00026176

META CRESOTINIC ACID

Powder

Direct shipments from England

	100-lb. lots	less
100-lb. kegs incl., per lb.	$1.60	...
Smaller packages incl., per lb.	...	1.70

F.o.b. New York, duty paid (40% foreign valuation, plus 7c a lb. specific).

Terms: Net cash on receipt of invoice, or net cash against shipping documents where credit is not approved.

SPECIFICATIONS

Buff colored powder.
Loss on drying—0.5% maximum.
Melting Point—175° C. minimum.
Purity (by titration)—99.0% minimum.

META CRESOTINIC ACID offers possibilities for varying the properties and shades of dyestuffs made from Salicylic and Ortho Cresotinic Acids.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683624

TOWOLDMON0041708
WATER_PCB-00026177

PARA CRESOTINIC ACID

Powder

Direct shipments from England.

	100-lb. lots	less
100-lb. kegs incl., per lb.	$1.60	...
Smaller packages incl., per lb.	...	1.70

F.o.b. New York, duty paid (40% foreign valuation, plus 7c a lb. specific).

Terms: Net cash on receipt of invoices, or net cash against shipping documents where credit is not approved.

SPECIFICATIONS

Buff colored powder.
Loss on drying—0.5% maximum.
Melting Point—150° C. minimum.
Purity (by titration)—99.5% minimum.

PARA CRESOTINIC ACID offers possibilities for varying the properties and shades of dyestuffs made from Salicylic and Ortho Cresotinic Acids.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683625

TOWOLDMON0041709
WATER_PCB-00026178

2,37-0-2

PARACHLORPHENOL

"ALBANIA"

	2,000-lb. lots	660-lb. lots	330-lb. lots	less
33-gal. steel drums incl., per lb. (Approx. 330 lbs.)	$0.45	.50	.60	...
Smaller packages incl., per lb	...	...	...	.85

F.o.b. Nitro, W. Va.

TERMS: 1% 10 days, 30 days net, where credit is approved.

CONTRACTS will be taken over twelve months.

SPECIFICATIONS

Colorless to light brown crystalline mass.
Crystallizing point: 40 to 43.6° C.
Boiling point: 217° C. Approx.
Phenol: trace.
Dichlorphenol: trace.
Water: trace.

Parachlorphenol is sensitive to light and should be kept in dark bottles.

USES: Parachlorphenol is a raw material for dye manufacturing, and enters into the quinizarin type of dyestuffs.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683626

TOWOLDMON0041710
WATER_PCB-00026179

Telegraphic Code:
"Paraniline"

PARANITRANILINE MONSANTO

Crystalline Powder

	On Contract	Spot
350-lb. bbls. incl., per lb.	$0.51	.53

Note: A price allowance of 3c a pound is made to the larger consumers of the dye and dry color industry.

CONTRACT and SALES solicitation is restricted to selected accounts. All inquiries and orders should be referred to St. Louis for attention.

We have entered into an exclusive sales arrangement with Sherwin-Williams, Cleveland, Ohio, and Calco Chemical Co., Bound Brook, N. J., wherein these companies have undertaken this distribution of PARANITRANILINE with certain limitations.

MONSANTO SPECIFICATIONS

Canary yellow crystalline powder.
Melting point: 148° C. minimum.
Solubility in hydrochloric acid: Yellow, practically clear.
Diazo solution: Clear, slight flock permitted.
Purity: 99.0% minimum.

NOTE: The Monsanto product is fully equivalent to, or better than competitive products.

The largest use of paranitraniline is probably in the manufacture of the dry color, para toner, used in the paint and printing ink trades, and para lakes for the ink makers. It is also used for the preparation of para red on the fibre, or on cloth and in the manufacture of a large number of dyestuffs, notably naphthol blue black, as well as certain sulfur dyes; also for chlorparanitraniline, for fire toners, and paraphenylenediamine, for fur dying.

We produce the basic raw materials, chlorbenzene, mixed acid, paranitrochlorbenzene and are well grounded in the manufacture of paranitraniline. With the control of our chief raw material, paranitrochlorbenzene and the present low cost of ammonia, we have a very economical process.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

Calco Chemical Company, New York.
The Sherwin-Williams Company, Cleveland, Ohio.

0683627

TOWOLDMON0041711
WATER_PCB-00026180

237-0-1

ORTHOCHLORPHENOL

"ASTHMA"

	2,000-lb. lots	660-lb. lots	330-lb. lots	less
33-gal. steel drums incl., per lb.....	$0.45	.50	.60	...
(Approx. 330 lbs.)				
Smaller packages incl., per lb.....	...	...	...	.85

F.o.b. Nitro, W. Va.

TERMS: 1% 10 days, 30 days net, where credit is approved.

CONTRACTS will be taken for twelve months.

ORTHOCHLORPHENOL, with a melting point of 9.4° C. is offered at an additional price. (Best made by Elko has a melting point of 9.5° C.)

ORTHOCHLORPHENOL, Special Grade, 9.3° melting point is manufactured for LaMotte Chemical Co. only, at $1.50 a pound.

SPECIFICATIONS

White liquid, becoming brown on standing or heating.
Specific Gravity at 15.5° C.: 1.260.
Melting point: 8.3° C. minimum.
Boiling point: 175° C. Approx.
Orthochlorphenol: 85% Approx.
Phenol: 15%.

ORTHOCHLORPHENOL is incorporated in the preparation of an arsenical compound, which is used as a fungicide in the treatment of "greens," for maintaining a rich growth of grass.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683628

TOWOLDMON0041712
WATER_PCB-00026181

ARL

SODIUM SULPHITE TECHNICAL ANHYDROUS

	100,000- lb. lots	40,000- lb. lots	10,000- lb. lots	less
400-lb. bbls. incl., per cwt.....	$2.70	2.80	2.90	3.00

F.o.b. Monsanto, Ill.

TERMS: 1% 10 days, 30 days net.

CONTRACTS will be taken over twelve months with protection: All inquiries however must be referred to St. Louis.

MONSANTO SPECIFICATIONS

Greyish or yellowish-white powder.

Sodium Sulphite (Na_2SO_3):	90.0% minimum.
Sodium Chloride (NaCl):	1.0% maximum.
Iron (Fe):	0.1% maximum.
Water (H_2O):	1.0% maximum.

USES: Mining, Rubber and Paper industries.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

None.

0683629

TOWOLDMON0041713
WATER_PCB-00026182

Telegraphic Code:
"Asteroid"

SODIUM SULPHITE TECHNICAL ANHYDROUS

	100,000-lb. lots or on contract	40,000-lb. lots and over	6,000 lb. lots and over	3,000 lb. lots and over	1,500 lb. lots and over	300 lb. lots and over
400-lb. bbls. incl, per lb.	$2.70	2.80	3.40	3.50	3.75	4.00

F.o.b. Monsanto, Ill.

TERMS: Net cash 30 days from date of invoice.

CONTRACTS will be taken over twelve months with protection: All inquiries however must be referred to St. Louis.

MONSANTO SPECIFICATIONS

Greyish or yellowish-white powder.

Sodium Sulphite (Na_2SO_3):	90.0% minimum.
Sodium Chloride (NaCl):	1.0% maximum.
Iron (Fe):	0.1% maximum.
Water (H_2O):	1.0% maximum.

USES: Mining, Rubber and Paper industries.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

None.

0683630

TOWOLDMON0041714
WATER_PCB-00026183

Telegraphic Code:
"Astral"

SODIUM SULPHITE CRYSTALS

$Na_2SO_3 . 7H_2O$

"ASTRAL"

	Carload Lots Spot or Contract	L.C.L. Lots Spot or Contract
300-lb. bbls. incl., per cwt.	$2.25	2.50
100-lb. bags incl., per cwt.	2.10	2.35

F.O.B. Monsanto, Illinois, or freight equalized with Grasselli, N. J. or Edgewater, N. J.

TERMS: Net cash 30 days from date of invoice.

CONTRACTS will be taken over twelve months with protection.

SPECIFICATIONS

White Crystals.
Solubility in distilled water: Complete.
Purity ($Na_2SO_3.7H_2O$): 94% Minimum.
Equivalent to 47.0% Minimum basis of the Anhydrous Salt.
Excess alkali as NaOH. Trace only.
Iron (Fe): 0.002%.

Titration of Sodium Sulphite must never involve aliquot solutions. Weigh a small sample and immerse directly in iodine solution. Water changes Sodium Sulphite.

USES: SODIUM SULPHITE is used as a Reducing agent: Antiseptic: In the Rayon industry: In the mining industry: In the general preparation of chemicals.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

General Chemical Company, New York City.
Grasselli Chemical Co., Cleveland, Ohio (duPont subsidiary).

0683631

TOWOLDMON0041715
WATER_PCB-00026184

236-0-0

SULFURYL CHLORIDE

SO_2Cl_2

(Crude)

	2,175-lb. lots	725-lb. lots	less
50-gal. drums incl., per lb	$0.10	.15	...
Smaller packages incl., per lb (Approx. net weight 725 lbs.)	...	...	.40

F.o.b. Nitro, W. Va.

TERMS: 1% 10 days, 30 days net, where credit is approved.

CONTRACTS will be taken over twelve months with protection.

SPECIFICATIONS

Dark yellow liquid.
Odor: strong, sharp.
Specific Gravity at 15.5° C.: 1.650.
Boiling point: 60 to 80° C. (80% within 2° C.).
Sulfuryl chloride: 95% minimum.
Sediment: None.
Iron chloride: not over trace.

(Sulfur deposits are formed on standing.)

SULFURYL CHLORIDE is used to a large extent in the preparation of various dyes and chemicals. It is a very good chlorinating agent.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers

0683632

TOWOLDMON0041716
WATER_PCB-00026185

(Elko)

11-D-0

ALTAI

A SUPERIOR GRADE OF TRIPHENYL PHOSPHATE

Contracts Over Twelve Months	24,000 lbs. and over	less
150-lb. bbls. incl., per lb	$0.48	.50

Spot Shipments	2,000 lbs. and over	150 lbs. and over	less
150-lb. bbls. incl., per lb	$0.50	.52	...
Smaller packages incl., per lb	...	...	.65

F.o.b. Nitro, W. Va.

CONTRACTS will be taken over twelve months with protection.
TERMS: 1% 10 days, 30 days net, where credit is approved.

SPECIFICATIONS

Specifications will be given upon application to St. Louis.

USES: ALTAI is used in conjunction with the esters of cellulose acetate and cellulose nitrate. It is also used as a fixative in the perfumery arts.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.
Kuttroff-Pickhardt & Co., New York—Importers.
Rhodia Chemical Co., New York—Importers.

0683633

TOWOLDMON0041717
WATER_PCB-00026186

THIONYL CHLORIDE

$SOCl_2$

(Liquid)

	2,000-lb. lots	150-lb. lots	less
150-lb. carboys extra*, per lb.	$0.68	.75	1.00
Smaller packages incl., per lb.	...	...	1.00

F.o.b. Nitro, W. Va.

TERMS: 1% 10 days, 30 days net, where credit is approved.

CONTRACTS: Refer contract inquiries to St. Louis.

*Carboys $7.50 each extra, and returnable for full credit within 90 days, freight prepaid to Nitro, W. Va.

SPECIFICATIONS

Colorless to pale yellow clear hygroscopic liquid.
Specific Gravity at 15.5° C.: 1.748.
Boiling range: 74 to 82° C. (90% within 2° C.).
Phosphorous: Less than 0.5% computed to elementary phosphorous.
Iron: Traces only.

USES: A reagent used in the preparation of various chemicals: A mild clorinating agent, for use in making intermediates, Organic Chemicals, Dye-Stuffs, Pharmaceuticals.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

No domestic manufacturers.

0683634

TOWOLDMON0041718
WATER_PCB-00026187

PIPERIDINE 80%

(Liquid)

	100-lb. lots	5-lb. lots	1-lb. lots
Containers incl., per lb	**$5.50**	**9.50**	**10.00**

F.o.b. Nitro, W. Va.

TERMS: 1% 10 days, net 30 days to approved credit.

CONTRACTS will be taken for twelve months for 100 lbs. or more.

We offer Piperidine as a raw material—not for use in the vulcanization of rubber.

SPECIFICATIONS

Liquid.
Odor: Similar to ammonia.
Specific Gravity at 15.5° C.:—0.875.
Flash Point: 15.6° C. (60° F.)
Piperidine: 80 to 81%.
Pyridine: 2 to 3%.
Water: 5 to 10%.
Higher Piperidine Homologues: 7 to 10%.

PIPERIDINE is employed in the preparation of various rubber accelerators. It is a secondary amine and a very strong base.

AVAILABLE LITERATURE

None.

COMPETITIVE MANUFACTURERS

None.

0683635

TOWOLDMON0041719
WATER_PCB-00026188

CODES

SALES DISTRICTS

SL	St. Louis
NY	New York
CH	Chicago
SF	San Francisco
EX	Export

SALES DIVISIONS

FC	Flavors & Condiments
HA	Acids & Heavy Chemicals
PH	Pharmaceuticals
IN	Intermediates
SS	Specialties (Santamine, Santochlor, Orthene)
BP	By-products
RM	Raw Materials

TERRITORIES

SL	St. Louis House
CH	Chicago House
SF	San Francisco House
NY	New York House
1	J. Byrne Severs
2	P. E. Herman
3	Nels Christenson
20	H. B. Miles
21	F. E. Byrne

UNITS OF MEASURE

1	ounces
2	pounds
3	tons
4	gross
5	grams
6	kilos
7	hundredweight (cwt.)
8	gallons
9	long tons

0683636

TOWOLDMON0041720
WATER_PCB-00026189

GENERAL INFORMATION

Monsanto Chemical Works with its divisions manufactures over 200 products serving more than fifty industries. The main offices of the company are located in St. Louis, Mo. Chairman of the Board is John F. Queeny, who founded Monsanto in 1901. His son, Edgar M. Queeny, is President and has active charge of the management.

Units in the Monsanto organization consist of:

MONSANTO CHEMICAL WORKS
1724 South Second Street
St. Louis, Missouri.

MERRIMAC CHEMICAL CO., INC.
Everett Station
Boston, Mass.

THE RUBBER SERVICE LABORATORIES CO., INC.
Peoples Savings & Trust Building
Akron, Ohio.

GRAESSER-MONSANTO CHEMICAL WORKS, LTD.
Victoria Station House, Victoria St.
London S. W. 1, England.

Sales offices are located at:

St. Louis, Missouri
1724 South Second St.

New York, N. Y.
10 East 40th St.

Boston, Mass.
Everett Station

Chicago, Illinois
500 North Dearborn St.

San Francisco, California
373 Brannan St.

Akron, Ohio
Peoples Savings and Trust Bldg.

London, England
Victoria Station House, Victoria St.

A brief description of the manufacturing units with a list of products made by each, follows:

MONSANTO CHEMICAL WORKS

Our medicinal and fine chemicals are manufactured at our *St. Louis* Works known as *Plant A*, which is located on the West side of the Mississippi and covers four city blocks. Acids and heavy chemicals, also intermediate chemicals, are manufactured at our *Monsanto, Illinois* Works, referred to as *Plant B*.

Monsanto (St. Clair County) Illinois adjoins East St. Louis, Illinois. It was incorporated August 7, 1926 and is considered the richest industrial village of its size in the country. Quotations of Plant B products are made f.o.b. Monsanto, Illinois, which takes East St. Louis rates. Empty drums are returnable to Monsanto, St. Clair County, Illinois.

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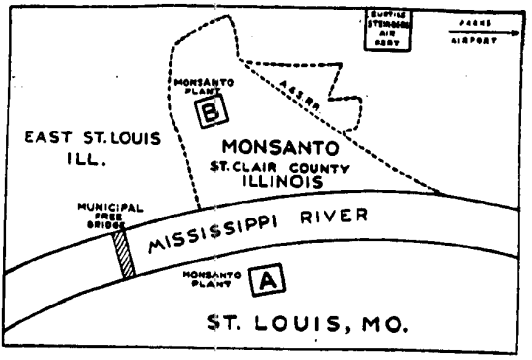
The map below shows the relative location of these two plants.



Products Made at Plant A

Acetanilid U.S.P.
Acetphenetidin U.S.P.
Acetyl Salicylic Acid U.S.P.
  Aspirin—Powdered
  Aspirin—10% Starch Granulations
  Aspir-Gran
Acid Salicylic U.S.P.
Ammonium Benzoate
Antiseptics and Germicides
  Chloramine U.S.P.
  Dichloramine U.S.P.
  Halazone
  Santamine
Benzoic Acid U.S.P.
Benzoyl Chloride
Benzyl Alcohol
Caffeine U.S.P.
Caffeine U.S.P. Citrated
Chloral Hydrate U.S.P.
Chlorcosane U.S.P. (Chlorinated paraffin)
Chrome Sulphate (Basic)
Coumarin Monsanto
Ethavan (Ethyl Vanillin)
Glycerophosphates
  Acid Calcium 50%
  Calcium U.S.P.
  Sodium Pure Crystals N.F.
  Sodium Pure Powder N.F.
  Sodium Anhydrous Pure Powder
  Sodium 75% Solution
  Sodium 50% Solution
  Potassium 75% Solution
  Potassium 50% Solution
  Iron Powder N.F.
  Iron Scales N.F.
  Magnesium
  Manganese N.F.

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Guaiacol U.S.P.
Maleic Acid
Orthoanisidine
Orthochloraniline
Orthonitranisole
Orthonitrochlorbenzene
Orthotoluenesulfonamid
Orthophenetidin
Paranitrophenol
Paraoxybenzaldehyde
Paraphenetidin
Paratoluenesulfonic Acid
Paratoluenesulfonamid
Paratoluenesulfonchloride
Phenolphthalein U.S.P
Phthalic Anhydride
Resins
    Santolite MS
    Santolie MHP
Saccharin Monsanto U.S.P.
    Soluble Granular or Powder
    Insoluble
Salicylaldehyde
Salicylates
    Acetyl Salicylic Acid U.S.P. (Aspirin)
        Powder
    Acetyl Salicylic Acid U.S.P. (Aspirin)
        10% Starch Granulations White, Pink or Green
    Aspir-Gran (Acetyl Salicylic Acid U.S.P. Granular)
    Ammonium U.S.P.
    Calcium
    Lithium
    Magnesium
    Methyl Salicylate Monsanto U.S.P. (Oil of Wintergreen
        Synthetic)
    Potassium
    Salol U.S.P. (Phenyl Salicylate)
    Sodium U.S.P.
    Strontium U.S.P.
Santicizers
    Santicizers 1, 3 and 8
Sodium Acetate U.S.P.
Sodium Benzoate U.S.P.
Sodium Phenate U.S.P.
Theobromine
Triphenyl Phosphate
Vanillin Monsanto U.S.P. (Clove Oil)
Vanillin Monsanto Improved, U.S.P.

Products Made at Plant B

Acids
    Battery
    C.P.
        Sulphuric, Hydrochloric, Nitric
    Mixed (Nitrating)
    Muriatic
    Nitric
    Sulphuric
Caustic Soda
Chlorine
Chlorsulfonic Acid
Electrolyte (Battery Acid)
Monochlorbenzene
Monsanto Salt
(Orthochlorparatoluenesodiumsulfonate)

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Nitre Cake (Sodium Bisulphate)
Orthochlorphenol
Orthodichlorbenzene (Orthene)
Orthonitraniline
Parachlorphenol
Paradichlorbenzene (Santochlor)
Paranitraniline
Paranitrochlorbenzene
Paranitrophenol Sodium
Phenol U.S.P.
Salt Cake (Sodium Sulphate)
Sodium Sulphite
Crystals
Technical Anhydrous
Sulfuryl Chloride
Thionyl Chloride

MERRIMAC CHEMICAL CO., INC.

C. BELKNAP, President

Merrimac is the oldest and largest chemical company in New England. Its history dates back to 1853 when Robert B. Eaton of Woburn, Mass., founded the Woburn Chemical Works. Today Merrimac offers more than fifty products to consuming industries.

The general offices of Merrimac have been consolidated with the plant at Everett, Mass. A handsome new office building has been built to house the various executive departments.

Everett adjoins Boston and is essentially a part of Boston, although a separate incorporation. The Merrimac address is shown as Everett Station, Boston.

All manufacturing of Merrimac products will shortly be done at the Everett plant. The Woburn plant is being dismantled as rapidly as possible and the consolidation of the two plants at Everett is expected to be completed October, 1931, or before. The concentration of all manufacture at Everett at a cost in excess of $1,000,000 is expected to reduce overhead materially and to put Merrimac in an even better position to render prompt and efficient service to its customers.

Products Made by Merrimac

Acids
Acetic
Battery
Mixed (Nitrating)
Muriatic
Nitric
Sulphuric
Alum
Aluminum Chloride
Aluminum Sulphate, Commercial and Iron Free
Ammonia Alum
Amyl Acetate
Anhydrous Ammonia
Aqua Ammonia
Belt Cement
Bisulfite of Soda
Bisulphate of Soda (Nitre Cake)
Butyl Acetate
Carbonic Acid Gas
Cotton Solutions
Depilatory
Electrolyte
Ethyl Acetate
Glauber's Salt
H. Acid

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Hypochlorite of Soda
Iron, Nitrate of
Lacquers
  Brushing
  Dipping
  Leather
  Manicure
  Paper
  Spray
  Textile
Salt Cake (Sodium Sulphate)
Sodium Aluminate
Solvents
Sulphur
  Superfine Flour
  Commercial Flour
Thinners

THE RUBBER SERVICE LABORATORIES CO., INC.

CARL N. HAND, President

Sales offices and a service laboratory are located at Akron, Ohio. Manufacturing is done at Nitro, W. Va. Nitro is 14 miles west of Charleston, in the industrial district of the Kanawha Valley, on the New York Central Railroad.

Special detailing and service is required in the sales of rubber accelerators and flotation materials. For this reason all inquiries relating to prices and specifications should be referred for the direct attention of the Rubber Service Laboratories Co. at Akron, Ohio.

R.S.L. Products for the Rubber Industry

Accelerators
  A-1 Thiocarbanilide
  A-22 Di-ortho-tolyl-thiourea
  A-5-10 Soft Formaldehyde Aniline
  A-7, A-11, A-16, A-19, A-32 } Aldehyde Derivatives of Schiff's Bases
  Di-Phenyl-Guanidine
  Z-88 Semi-Ultra Accelerator
  R-2 Very Rapid Ultra
  Ureka—All Purpose Accelerator
  Cycline Oil—A Neutral Softening Oil
  Pipsol-X—Water Soluble Ultra Accelerator
Anti-Oxidants
  Resistox (Anti-Oxidant)
  Oxynone (Accelerator Plus Anti-Oxidant)
  Tackol—A Tack Producer
  Fluxol—An Improved Hardwood Pitch
Crayons—All Types for Rubber Use
Mold Paste—Manufactured expressly for Rubber Makers Molds
Colors—A Complete Line of Organic Dyestuffs for Use in Rubber Goods

For the Mining Industry

Sodium Sulphite
Thiocarbanilide
Xanthates
  Amyl Xanthate
  Butyl Xanthate
  Potassium Xanthate
  Sodium Xanthate

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TOWOLDMON0041725
WATER_PCB-00026194

GRAESSER-MONSANTO CHEMICAL WORKS, LTD.

DR. L. F. NICKELL, Managing Director

Our British Associate company has sales offices in London. Manufacturing facilities have been enlarged and G.-M. products are now made at Ruabon, N. Wales and at Sunderland, England.

Products of Ruabon Plant

Acetyl Salicylic Acid B.P.
- Aspir-Gran
- Aspirin Powdered
- Aspirin Granular

Acrosyl (Lysol) 50% Tar-Acids
Allantoin
Aurine
- Spirit Soluble
- Water Soluble

Carbolic Acid
- Ice Crystals, 40/41° C.
- Detached Crystals, 40/41° C.
- Liquefied

Chlornaphthalenes, Mono, Tri, Hexa
Chlor Phenols
- Ortho
- Para

Creosote, Soluble
- Disinfectant Fluid, 15%, 20% and 25%

Cresols
- Ortho, 30/31° C.
- Meta, 98/100%
- Para, 34.5° C.

Cresotinic Acids
- Ortho
- Meta
- Para

Cresylic Acid
- Pure
- Refined
- Pale
- Dark
- Also Special Grades

Methyl Salicylate B.P.
Parachlormeta Cresol. M.P.114° } Disinfectant Intensifiers
Parachlormeta Xylenol. M.P.64° }
Phenol, See Carbolic Acid
Pyridine Pure
Saccharin-Monsanto
- 555 insoluble
- 500 soluble
- 550 insoluble
- 550 Britsac

Salicylic Acid B.P. Technical
Sodium Salicylate, B.P.
Vanillin-Monsanto

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TOWOLDMON0041726
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Products of Sunderland Plant

Benzene
- Pure
- Motor

Toluene
Xylene
Solvent Naptha
- 90/160
- 90/170

High Flash Naptha 90/190
- Waterwhite
- Straw colored

Special Solvent Naptha
Refined Pyridine
Refined Heavy Bases
Benzene Absorbing Oil
Heavy Oil
Anthracene Oil
Anthracene
Creosote
Refined Tar
Pitch
Pure Naphthalene
Liquor Ammoniae
Sharp Oil
Lucigen Oil
Brick Oil
Neutral Oil

G.-M. Products for Sale in the United States

Although the above covers the full range of Graesser-Monsanto products, we only handle for resale in this country those that find a ready market in view of domestic manufacturing conditions and the tariff situation. G.-M. products available for sale here and on which you are asked to concentrate your efforts, are given below.

Can offer non-dutiable	Can offer dutiable
Cresylic Acid, CM3 grade	Meta Cresol 55/60%
Cresylic Acid, F-2 grade	Pure Meta Cresol
Special Cresylic MR	Pure Para Cresol
High Boiling Cresylic	Pure Ortho Cresol
Xylenols	Para Chlor Meta Cresol
Pure Pyridine	Para Chlor Meta Xylenol
Refined Pyridine	Phenol—Detached Crystals
Crude Pyridine	Allantoin
Creosote	Meta Cresotinic Acid
Dark Cresylic 95%	Para Cresotinic Acid
Hot Pressed Naphthalene	Special Mixtures of Cresol Pure and Technical
	Xylenols

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TOWOLDMON0041727
WATER_PCB-00026196

MONSANTO PRODUCTS

(Listed Alphabetically by Product)

The figures and letters in the middle column are the codes used with the Hollerite Machine, and are to be used in interpreting the weekly billing Statements and other reports taken off on the Hollerite Machine. For these statements instead of the letter, the second column will be given in numerals—*i. e.*, "A" is shown as "1", "B" as "2", etc.

In the case of Monsanto Plants A and B, the first number (or numbers) and letter designate the department in which the product is manufactured, and the number following the letter designates the number of the product manufactured in this specific department. The product codes of the various divisions, may be easily identified by the serial numbers as follows:

Plant "A" numbered..... 1-199
Plant "B" numbered.....200-399
Graesser-Monsanto numbered.....600-699
Rubber Service Laboratories numbered.....700-799
Merrimac numbered 800-899

PRODUCT	CODE NUMBER	CODE WORD
Acetaldehyde	701-0-0	Athens
Acetanilid U. S. P.	12-0-0	Acetanilid
Acetphenetidin U. S. P. Crystals	5-0-0	Phenacetin
Acetphenetidin U. S. P. Powder	5-0-1	Phenapo
Acetyl Salicylic Acid U. S. P. (Aspirin)		Aspirin
" Crystals	7-0-1	Acetcrys
" Granular (Aspirgran)	7-B-0	Acetgran
" Granulated	7-A-0	Aspirgran
" Powder	7-0-2	Acetpo
" 10% Starch Granulation Green	7-A-1	Green
" 10% Starch Granulation Pink	7-A-4	Pink
" 10% Starch Granulation White	7-A-6	White
" 20% Starch Granulation White	7-A-7	Whitwenty
Aethacol	14-A-0	Aethacol
A.F.W.	702-0-0	Affray
Altai (Triphenyl Phosphate)	703-0-0	Altai
Ammonium Benzoate	18-B-0	Benzonium
Aniline Oil	2-B-2	Aniline
Basic Chrome Sulfate (Santotan)	1-C-0	Santotan
Basic Chrome Sulfate (Modified) (Santotan-S)	1-C-1	Santotans
Battery Acid 1.200 to 1.400 S.G. (Electrolite)	225-0-0	Electro
Battery Acid 1.835 S.G. (Electrolite)	215-0-2	Electryte
Benzaldehyde Technical	18-0-1	Benzahyde
Benzenesulfonic Acid	223-3-0	Benzfonic
Benzoic Acid U. S. P.	18-0-0	Benzoic
Benzoyl Chloride	18-0-2	Benzochlor
Benzyl Alcohol	18-0-3	Benzalco
Butyl Acetate	810-0-0	Butyl

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TOWOLDMON0041728
WATER_PCB-00026197

MONSANTO PRODUCTS—*Continued*

(Listed Alphabetically by Product)

PRODUCT	CODE NUMBER	CODE WORD
Caffeine U. S. P. Anhydrous Powder	3-0-4	Cafandrous
Caffeine U. S. P. Citrated	3-A-0	Caffcit
Caffeine U. S. P. Cubes	3-0-2	Caffinubes
Caffeine U. S. P. Powder (Flakes)	3-0-1	Caffeine
Carbolic Acid Ice Crystals	601-0-0	Carbice
Carbolic Acid Detached Crystals	601-0-1	Cardetach
Caustic Soda (50% Solution)	229-0-0	Caustic
Chloral Hydrate	8-0-0	Chloral
Chloramine U. S. P.	17-A-1	Chloramine
Chloramine U. S. P. Granular	17-A-2	Chlorgran
Chloramine U. S. P. Large Crystals	17-A-3	Chlorlar
Chloramine Technical	17-A-9	Chlorteck
Chlorinated Paraffin U. S. P. (Chlorcosane)	17-D-0	Chlorcosan
Chlorine Liquid	232-0-0	Chlorine
Chlorsulfonic Acid	217-0-0	Sulfonic
Clove Terpenes	2-B-3	Terpenes
Coal Tar Distillate	600-5-0	Tardist
Cocoa Cake	3-0-7	Cocoa
Contact Mass (Vanadium Silicate)	210-0-0	Vanadium
Coumarin	11-0-0	Coumarin
Coumarin Large Crystals	11-0-1	Coular
Coumarin Small Crystals	11-0-2	Cousmall
Cresylic Acid		
" Pale 97-99%	600-0-0	Cmthree
" Pale Special	600-0-1	Cmspec
" Low Boiling	600-0-2	Cmlow
" High Boiling	600-0-3	Cmhigh
" Dark 95%	600-0-4	Cmdark
" F-2	600-0-6	Cmtwo
" Dutiable	600-0-7	Cmduty
Dichloramine U. S. P.	17-B-0	Dichlorine
Electrolyte (Battery Acid) 1.200 to 1.400 S.G.	225-0-0	Electro
Electrolyte (Battery Acid) 1.835 S.G.	215-0-2	Electryte
Ethavan (Ethyl Vanillin)	2-D-0	Ethavan
Ethyl Acetate	820-0-0	Ethyl
Ethylorthoparatoluenesulfonamid (Santicizer 8)	16-0-8	Santate
Ethylparatoluenesulfonamid (Santicizer 3)	16-0-3	Santhree
Eugenol (Oil of Cloves)	2-A-0	Eugenol
Exhausted Cloves	2-A-2	Excloves

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TOWOLDMON0041729
WATER_PCB-00026198

MONSANTO PRODUCTS—*Continued*

(Listed Alphabetically by Product)

PRODUCT	CODE NUMBER	CODE WORD
Glycerophosphates		Glycerates
" Acid Calcium 50%	6-B-2	Acidalcium
" Ammonium	6-B-3	Ammonium
" Calcium U. S. P.	6-A-1	Calcium
" Glycerophosphoric Acid 25%	6-B-1	Glycerofos
" Iron Powder	6-B-4	Ironpowd
" Iron Scales	6-B-5	Ferscal
" Iron Solution	6-B-6	Fersol
" Magnesium	6-B-7	Magnesium
" Manganese	6-B-8	Manganese
" Potassium Solution 50%	6-B-9	Pothaf
" Potassium Solution 75%	6-B-10	Potassium
" Sodium Anhydrous Powder	6-A-4	Sodrous
" Sodium Pure Crystals	6-A-2	Sodium
" Sodium Pure Powder	6-A-3	Sodpo
" Sodium Semi Crystals	6-A-7	Sodsemi
" Sodium Solution 50%	6-A-6	Sodhaf
" Sodium Solution 75%	6-A-5	Sodiumsol
Guaiacol Crystals U. S. P.	14-0-0	Guaiacol
Guaiacol Liquid U. S. P.	14-0-2	Guaisol
Halazone	17-C-O	Halazone
Hibitite No. 7	713-0-0	Hibiseven
Hydrochloric Acid 18° (Muriatic)	218-0-5	Muriate
Hydrochloric Acid 20° (Muriatic)	218-0-6	Muritwent
Hydrochloric Acid 22° (Muriatic)	218-0-7	Muritoo
Maleic Acid	3-B-0	Maleic
Manicure (Fingernail) Lacquer R-1464	825-0-1	Lacqone
Manicure (Fingernail) Lacquer R-1518	825-0-2	Lacqtwo
Manicure Lacquer Remover B-420	830-0-0	Remover
Meta Cresol Pure	602-0-0	Metapure
Meta Cresol 75-80%	602-0-1	Meteighty
Meta Cresol 55-60%	602-0-2	Metsixty
Meta Cresotinic Acid	605-0-0	Metinic
Meta Xylenol Pure	609-0-0	Metaxyl
Methyl Salicylate U. S. P.	20-0-0	Methyl
Mixed Acid (Nitrating Acid)	216-0-10	Mixed
Monochlorbenzene	233-0-0	Monoben
Monsanto Salt (Orthochlorparatoluene-sodiumsulfonate)	226-0-0	Sulfonate
Muriatic Acid C.P.	218-0-9	Muricip
Muriatic Acid 18° (Hydrochloric)	218-0-5	Muriate
Muriatic Acid 20° (Hydrochloric)	218-0-6	Muritwent
Muriatic Acid 22° (Hydrochloric)	218-0-7	Muritoo
Naphthalene, Hot Pressed (Sunderland)	650-0-0	Naphthalene
Nitrating Acid (Mixed Acid)	216-0-10	Mixed
Nitre Cake	216-0-12	Nitrake

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TOWOLDMON0041730
WATER_PCB-00026199

MONSANTO PRODUCTS—*Continued*

(Listed Alphabetically by Product)

PRODUCT	CODE NUMBER	CODE WORD
Nitric Acid C.P.	216-0-9	Nitricip
" 36°	216-0-1	Nitrix
" 38°	216-0-2	Nitrate
" 40°	216-0-3	Nitree
" 42°	216-0-4	Nitroo
" 45°	216-0-5	Nitrive
" Fuming	216-0-6	Fumic
Oleum 15%	215-0-5	Loleum
Oleum 20%	215-0-6	Hyleum
Oleum 26%	215-0-7	Hyleumix
Oleum 35%	215-0-8	Hyleumive
Oly Compound	715-0-0	Oly
Orthene (Orthodichlorbenzene)	233-0-3	Orthene
Orthoanisidine	5-D-0	Orthodine
Orthochloraniline	62-0-0	Orthochlor
Orthochlorparatoluenesodiumsulfonate (Monsanto Salt)	226-0-0	Sulfonate
Orthochlorphenol	704-0-3	Asthma
Ortho-Cresol Pure	603-0-0	Orthopure
Ortho Cresotinic Acid	608-0-0	Orthotinic
Ortho Xylenol	610-0-0	Orthoxyl
Orthonitraniline	222-0-0	Orthaniline
Orthonitroanisole	5-C-0	Orthosole
Orthonitrochlorbenzene	5-A-1	Orthonitro
Orthophenetidin	5-B-1	Orthophen
Orthotoluenesulfonamide	1-A-1	Orthotol
Orthotoluenesulfonchloride	15-A-3	Orthosulf
Parachlormeta Cresol	612-0-0	Parachlor
Parachlorphenol	704-0-4	Albania
Para Cresol Pure	604-0-0	Parapure
Para Cresotinic Acid	607-0-0	Paratinic
Paraldehyde	705-0-0	Aaron
Paradichlorbenzene C-8 (Santochlor)	233-A-4	Saneight
Paradichlorbenzene 8-16 (Santochlor)	233-A-5	Santeen
Paradichlorbenzene 16-24 (Santochlor)	233-A-7	Santwenty
Parahydroxybenzaldehyde	11-0-5	Parahyde
Paraldehyde	705-0-0	Aaron
Paranitraniline	222-0-0	Paraniline
Paranitrochlorbenzene	5-A-3	Paranitro
Paranitrophenol	5-B-3	Nitrophen
Paranitrophenol Sodium	5-B-4	Parasod
Paranitrophenetol	5-B-5	Paraphenetol
Paraphenetidin	5-B-0	Penetidin
Paratoluenesulfonamide	1-A-3	Paratol
Paratoluenesulfonchloride	15-A-1	Sulchlorid
Paratoluenesulfonic Acid	9-0-5	Tolusulf
Paratoluenesulfonilid (Santicizer 1)	16-0-1	Santone
Pentasol Acetate	840-0-0	Pentasol
Phenol U. S. P.	223-0-0	Phenol

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TOWOLDMON0041731
WATER_PCB-00026200

MONSANTO PRODUCTS—*Continued*

(Listed Alphabetically by Product)

PRODUCT	CODE NUMBER	CODE WORD
Phenol U. S. P. 85%	223-0-1	Phensol
Phenolphthalein U. S. P.	9-0-1	Phenolthol
Phenolphthalein U. S. P. Special	9-0-3	Phenspec
Phenolphthalein Yellow	9-0-2	Phenyel
Phthalic Anhydride	9-A-0	Phthalic
Phthalic Anhydride A Grade	9-A-2	Phthala
Piperidine	707-0-0	Aberdeen
Pyridine	611-0-0	Pyridine
Saccharin		
" Insoluble U. S. P.	1-0-0	Sacchoryn
" Soluble U. S. P. Granular	1-B-1	Sacchanlar
" Soluble U. S. P. Large Crystals	1-B-4	Sacchrylarg
" Soluble U. S. P. Pea Crystals	1-B-3	Sacchryst
" Soluble U. S. P. Powder	1-B-2	Saccharo
Salicylates		
" Ammonium U. S. P.	4-0-10	Amonumsal
" Calcium	4-0-12	Calciumsal
" Caffeine	4-0-11	Cafsal
" Lithium	4-0-13	Lithsal
" Magnesium	4-0-14	Magnumsal
" Methyl U. S. P.	20-0-0	Methyl
" Potassium	4-0-15	Potsal
" Salol U. S. P.	19-0-0	Salol
" Sodium	4-B-0	Sodasal
" Strontium U. S. P.	4-0-16	Strontisal
" Salicylic Acid U. S. P.	4-C-1	Salicylic
" Salicylic Acid U. S. P. Powder	4-C-2	Salpowd
" Salicylic Acid U. S. P. B. Grade	4-C-3	Salibee
" Salicylic Acid Technical	4-0-0	Salitech
Salicylaldehyde	4-B-0	Aldehyde
Salt Cake	218-0-1	Salake
Santamine	17-A-6	Santamine
Santicizer 1 (Paratoluenesulfonanilid)	16-0-1	Santone
Santicizer 3 (Ethylparatoluenesulfonamid)	16-0-3	Santhree
Santicizer 8 (Ethylorthoparatoluenesulfonamid)	16-0-8	Santate
Santicizer 12	16-0-12	Santwelve
Santochlor C-8 (Paradichlorbenzene)	233-A-4	Saneight
Santochlor 8-16 (Paradichlorbenzene)	233-A-5	Santeen
Santochlor 16-24 (Paradichlorbenzene)	233-A-7	Santwenty
Santolite H	10-0-1	Santoh
Santolite S	10-0-2	Santos
Santolite MS	10-0-3	Santoms
Santolite MHP	10-0-4	Santomhp
Santolite MH	10-0-5	Santomh
Santotan (Basic Chrome Sulphate)	1-C-0	Santotan
Santotan-S (Basic Chrome Sulphate Modified)	1-C-1	Santotans
Sodium Acetate U. S. P.	7-C-1	Acetate
Sodium Acetate Anhydrous	7-C-2	Acetrous
Soduim Benzoate	18-A-0	Benzoate
Sodium Phenate	4-0-5	Phenate

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TOWOLDMON0041732
WATER_PCB-00026201

MONSANTO PRODUCTS—*Continued*

(Listed Alphabetically by Product)

PRODUCT	CODE NUMBER	CODE WORD
Sodium Sulphate Powder	218-0-2	Sodapow
Sodium Sulphate Technical	218-0-3	Sodatech
Sodium Sulphite Technical	223-A-0	Sulfitech
Sodium Bisulphite	710-0-1	Ash
Sodium Sulphite Technical	710-0-2	Asteroid
Sodium Sulphite Crystals	710-0-3	Astral
Spent Acid	215-0-10	Spent
Sulfur Chloride (Sulfur Monochloride)	235-0-1	Sulfide
Sulfur Dichloride	235-0-2	Disulfide
Sulfuric Acid C.P.	215-0-9	Sulfcip
Sulfuric Acid 60°	213-0-1	Sulftee
Sulfuric Acid 66°	215-0-1	Sulfix
Sulfuric Acid 98°	215-0-4	Sulfate
Sulfuric Acid 15% (Oleum)	215-0-5	Loleum
Sulfuric Acid 20% (Oleum)	215-0-6	Hyleum
Sulfuryl Chloride	711-0-0	Azurite
Tea Waste	3-0-6	Waste
Theobromine	67-0-0	Theobromine
Theobromine Sodium Salicylate	67-0-1	Theosodsal
Thiocarbanilide	709-0-0	Africa
Thionyl Chloride	708-0-0	Autograph
Triphenyl Phosphate (Altai)	703-0-0	Altai
Vanadium (Contact Mass)	210-0-0	Vanadium
Vanillin Crude Distillate	2-C-4	Vandist
Vanillin U. S. P.	2-B-0	Vanillin
Vanillin U. S. P. Improved	2-C-0	Vanimprove
Vegetable Wax	3-0-5	Wax
Xanthates		
" Amyl	712-0-1	Aroma
" Butyl	712-0-2	Aloha
" Potassium	712-0-3	Arbutus
" Sodium	712-0-4	Aster
Zinc Chloride 50% Solution	219-0-0	Zincsol
Zinc Oxide	2-C-1	Zincox

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TOWOLDMON0041733
WATER_PCB-00026202

MONSANTO PRODUCTS

(Listed Numerically by Code)

The figures and letters in the first column are the codes used with the Hollerite Machine, and are to be used in interpreting the weekly billing statements and other reports taken off on the Hollerite Machine. For these statements instead of the letter, the second column will be given in numerals—*i. e.*, "A" is shown as "1", "B" as "2", etc.

In the case of Monsanto Plants "A" and "B," the first number (or numbers) and letter designate the department in which the product is manufactured, and the number following the letter designates the number of the product manufactured in that specific department. The product codes of the various divisions, in addition to running numerically, also run alphabetically according to product.

Plant "A" numbered	1-199
Plant "B" numbered	200-399
Graesser-Monsanto numbered	600-699
Rubber Service Laboratories numbered	700-799
Merrimac numbered	800-899

Code Number	Code Word	Product
1-0-0	Sacchoryn	Saccharin Insoluble U. S. P.
1-A-1	Orthotol	Orthotoluenesulfonamid
1-A-3	Paratol	Paratoluenesulfonamid
		Saccharin
1-B-1	Sacchanlar	" Soluble U. S. P. Granular
1-B-2	Saccharo	" Soluble U. S. P. Powder
1-B-3	Sacchryst	" Soluble U. S. P. Pea Crystals
1-B-4	Sacchrylarg	" Soluble U. S. P. Large Crystals
1-C-0	Santotan	Santotan (Basic Chrome Sulphate)
1-C-1	Santotans	Santotan S
2-A-0	Eugenol	Eugenol (Oil of Cloves)
2-A-2	Excloves	Exhausted Cloves
2-B-0	Vanillin	Vanillin U. S. P.
2-B-2	Aniline	Aniline Oil
2-B-3	Terpenes	Clove Terpenes
2-C-0	Vanimprove	Vanillin, Improved U. S. P.
2-C-1	Zincox	Zinc Oxide
2-C-4	Vandist	Vanillin Crude Distillate
2-D-0	Ethavan	Ethavan (Ethyl Vanillin)
3-0-1	Caffeine	Caffeine U. S. P. Powder (Flakes)
3-0-2	Caffinubes	" U. S. P. Cubes
3-0-4	Cafandrous	" U. S. P. Anhydrous Powder
3-0-5	Wax	Vegetable Wax
3-0-6	Waste	Tea Waste
3-0-7	Cocoa	Cocoa Cake
3-A-0	Caffcit	Caffeine U. S. P. Citrated
		Salicylates
4-0-0	Salitech	" Salicylic Acid Technical
4-0-5	Phenate	" Sodium Phenate
4-0-10	Amonumsal	" Ammonium Salicylate U. S. P.
4-0-11	Cafsal	" Caffeine Salicylate
4-0-12	Calciumsal	" Calcium Salicylate
4-0-13	Lithsal	" Lithium Salicylate
4-0-14	Magnumsal	" Magnesium Salicylate

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TOWOLDMON0041734
WATER_PCB-00026203

MONSANTO PRODUCTS—*Continued*

(Listed Numerically by Code.)

Code Number	Code Word	Product
		Salicylates
4-0-15	Potsal	" Potassium Salicylate
4-0-16	Strontisal	" Strontium Salicylate U. S. P.
4-B-0	Sodasal	" Sodium U. S. P.
4-C-1	Salicylic	" Salicylic Acid U. S. P.
4-C-2	Salpowd	" Salicylic Acid U. S. P. Powder
4-C-3	Salibee	" Salicylic Acid B Grade
5-0-0	Phenacetin	Acetphenetidin U. S. P. Crystals
5-0-1	Phenapo	Acetphenetidin U. S. Powder
5-A-1	Orthonitro	Orthonitrochlorbenzene
5-A-3	Paranitro	Paranitrochlorbenzene
5-B-0	Phenetidin	Paraphenetidin
5-B-1	Orthophen	Orthophenetidin
5-B-3	Nitrophen	Paranitrophenol
5-B-4	Parasod	Paranitrophenol Sodium
5-B-5	Paraphenetol	Paranitrophenetole
5-C-0	Orthosole	Orthonitroanisole
5-D-0	Orthodine	Orthoanisidine
		Glycerophosphates
6-A-1	Calcium	" Calcium U. S. P.
6-A-2	Sodium	" Sodium U. S. P. Pure Crystals
6-A-3	Sodpo	" Sodium U. S. P. Pure Powder
6-A-4	Sodrous	" Sodium Anhydrous Powder
6-A-5	Sodiumsol	" Sodium Solution 75%
6-A-6	Pothaf	" Sodium Solution 50%
6-A-7	Sodsemi	" Sodium Semi Crystals
6-B-1	Glycerofos	" Glycerophosphoric Acid 25%
6-B-2	Acidalcium	" Acid Calcium 50%
6-B-3	Ammonium	" Ammonium
6-B-4	Ironpowd	" Iron Powder N. F.
6-B-5	Ferscal	" Iron Scales
6-B-6	Fersol	" Iron Solution
6-B-7	Magnesium	" Magnesium
6-B-8	Manganese	" Manganese
6-B-9	Pothaf	" Potassium Solution 50%
6-B-10	Potassium	" Potassium Solution 75%
		Acetyl Salicylic Acid U. S. P. (Aspirin)
7-0-1	Acetcrys	" Crystals
7-0-2	Acetpo	" Powder
7-A-0	Acetgran	" Granulated
7-A-1	Green	" 10% Starch Granulation Green
7-A-4	Pink	" 10% Starch Granulation Pink
7-A-6	White	" 10% Starch Granulation White
7-A-7	Whitwenty	" 20% Starch Granulation White
7-B-0	Aspirgran	" Aspirgran (Granular)
7-C-1	Acetate	Sodium Aectate U. S. P.
7-C-2	Acetrous	Sodium Acetate Anhydrous
8-0-0	Chloral	Chloral Hydrate U. S. P.
9-0-1	Phenolthol	Phenolphthalein U. S. P.
9-0-2	Phenyel	Phenolphthalein Yellow
9-0-3	Phenspec	Phenolphthalein U. S. P. Special
9-0-5	Tolusulf	Paratoluenesulfonic Acid
9-A-0	Phthalic	Phthalic Anhydride
9-A-2	Phthala	Phthalic Anhydride A Grade

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TOWOLDMON0041735
WATER_PCB-00026204

MONSANTO PRODUCTS—*Continued*

(Listed Numerically by Code.)

Code Number	Code Word	Product
9-B-0	Maleic	Maleic Acid
10-0-1	Santoh	Santolite H
10-0-2	Santos	Santolite S
10-0-3	Santoms	Santolite MS
10-0-4	Santomhp	Santolite MHP
10-0-5	Santomh	Santolite MH
11-0-0	Coumarin	Coumarin
11-0-1	Coular	Coumarin Large Crystals
11-0-2	Cousmall	Coumarin Small Crystals
11-0-5	Paraoxy	Paraoxybenzaldehyde
11-B-0	Aldehyde	Salicylaldehyde
12-0-0	Acetanilid	Acetanilid U. S. P.
14-0-0	Guaiacol	Guaiacol Crystals
14-0-2	Guaisol	Guaiacol Liquid
14-A-0	Aethacol	Aethacol
15-A-1	Sulchlorid	Paratoluenesulfonchloride
15-A-3	Orthosulf	Orthotoluenesulfonchloride
16-0-1	Santone	Santicizer 1 (Paratoluenesulfonanilid)
16-0-3	Santhree	Santicizer 3 (Ethylparatoluenesulfonamid)
16-0-8	Santate	Santicizer 8 (Ethylorthoparatoluenesulfonamid)
16-0-12	Santwelve	Santicizer 12
17-A-1	Chloramine	Chloramine U. S. P.
17-A-2	Chlorgran	Chloramine U. S. P. Granular
17-A-3	Chlorlar	Chloramine U. S. P. Large Crystals
17-A-6	Santamine	Santamine
17-A-9	Chlortech	Chloramine U. S. P. Technical
17-B-0	Dichlorine	Dichloramine U. S. P.
17-C-0	Halazone	Halazone
17-D-0	Chlorcosan	Chlorcosane
18-0-0	Benzoic	Benzoic Acid U. S. P.
18-0-1	Benzahyde	Benzaldehyde Technical
18-0-2	Benzochlor	Benzoyl Chloride
18-0-3	Benzalco	Benzyl Alcohol
18-A-0	Benzoate	Sodium Benzoate U. S. P.
18-B-0	Benzonium	Ammonium Benzoate
19-0-0	Salol	Salol U. S. P.
20-0-0	Methyl	Methyl Salicylate U. S. P.
Nos. 50-99 incl.	Special	Manufacture.
62-0-0	Orthochlor	Orthochloraniline
67-0-0	Theobromine	Theobromine
67-0-1	Theosodsal	Theobromine Sodium Salicylate

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TOWOLDMON0041736
WATER_PCB-00026205

MONSANTO PRODUCTS—*Continued*

(Listed Numerically by Code.)

Code Number	Code Word	Product
210-0-0	Vanadium	Contact Mass (Vanadium Silicate)
213-0-1	Sulftee	Sulfuric Acid 60°
215-0-1	Sulfix	Sulfuric Acid 66°
215-0-2	Electryte	Battery Acid 1.835 S. G. (Electrolyte)
215-0-3	Creamery	Creamery Acid
215-0-4	Sulhigh	Sulfuric Acid 100%
215-0-5	Loleum	Oleum 15%
215-0-6	Hyleum	Oleum 20%
215-0-7	Hyleumix	Oleum 26%
215-0-8	Hyleumive	Oleum 35%
215-0-9	Sulfcip	Sulfuric Acid C. P.
215-0-10	Spent	Spent Acid
		Nitric Acid
216-0-1	Nitrix	" 36°
216-0-2	Nitrate	" 38°
216-0-3	Nitree	" 40°
216-0-4	Nitroo	" 42°
216-0-5	Nitrive	" 45°
216-0-6	Fumic	Fuming
216-0-9	Nitricip	Nitric Acid C. P.
216-0-10	Mixed	Mixed Acid (Nitrating Acid)
216-0-12	Nitrake	Nitre Cake
217-0-0	Sulfonic	Chlorsulfonic Acid
218-0-1	Salake	Salt Cake
218-0-2	Sodapow	Sodium Sulfate Anhydrous Powder
218-0-3	Sodatech	Sodium Sulfate Technical
218-0-5	Muriate	Muriatic Acid 18° (Hydrochloric)
218-0-6	Muritwent	Muriatic Acid 20° (Hydrochloric)
218-0-7	Muritoo	Muriatic Acid 22° (Hydrochloric)
218-0-9	Muricip	Muriatic Acid C. P.
219-0-0	Zincsol	Zinc Chloride Solution 50%
222-0-0	Paraniline	Paranitraniline
222-0-2	Orthoaniline	Orthonitraniline
223-0-0	Phenol	Phenol U. S. P.
223-0-1	Phensol	Phenol 85%
223-0-3	Bensulf	Benzenesulfonic Acid
223-A-0	Sulfitech	Sodium Sulfite Technical
225-0-0	Electro	Battery Acid 1.200 to 1.400 S. G. (Electrolyte)
226-0-0	Sulfonate	Monsanto Salt (Orthochlorparatoluene-sodiumsulfonate)
229-0-0	Caustic	Caustic Soda Solution
232-0-0	Chlorine	Chlorine Liquid
233-0-0	Monoben	Monochlorbenzene
233-0-3	Orthene	Orthene (Orthodichlorbenzene)

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TOWOLDMON0041737
WATER_PCB-00026206

MONSANTO PRODUCTS—*Continued*

(Listed Numerically by Code.)

Code Number	Code Word	Product
233-A-4	Saneight	Santochlor C-8 (Paradichlorbenzene)
233-A-5	Santeen	Santochlor 8-16 (Paradichlorbenzene)
233-A-7	Santwenty	Santochlor 16-24 (Paradichlorbenzene)
235-0-1	Sulfide	Sulfur Chloride
235-0-2	Disulfide	Sulfur Dichloride

Products of Graesser-Monsanto

		Cresylic Acid
600-0-0	Cmthree	" Pale 97-99%
600-0-1	Cmspec	" Pale Special
600-0-2	Cmlow	" Low Boiling
600-0-3	Cmhigh	" High Boiling
600-0-4	Cmdark	" Dark 95%
600-0-5	Tardist	Coal Tar Distillate
600-0-6	Cmtwo	Cresylic Acid F-2
600-0-7	Cmduty	Cresylic Acid Dutiable
601-0-0	Carbice	Carbolic Acid Ice Crystals
600-0-1	Cardetach	Carbolic Acid Detached Crystals
602-0-0	Metapure	Meta Cresol Pure
602-0-1	Meteighty	Meta Cresol 75-80%
602-0-2	Metsixty	Meta Cresol 55-60%
603-0-0	Orthopure	Ortho Cresol Pure
604-0-0	Parapure	Para Cresol Pure
605-0-0	Metinic	Meta Cresotinic Acid
607-0-0	Paratinic	Para Cresotinic Acid
608-0-0	Orthotinic	Ortho Cresotinic Acid
609-0-0	Metaxyl	Meta Xylenol Pure
610-0-0	Orthoxyl	Ortho Xylenol
611-0-0	Pyridine	Pyridine
612-0-0	Parachlor	Parachlormeta Cresol
650-0-0	Naphthalene	Hot Pressed Naphthalene (Sunderland)

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TOWOLDMON0041738
WATER_PCB-00026207

MONSANTO PRODUCTS—*Continued*

(Listed Numerically by Code.)

Products of Rubber Service Laboratories

Code Number	Code Word	Product
701-0-0	Athens	Acetaldehyde
702-0-0	Affray	A. F. W.
703-0-0	Altai	Altai (Triphenyl Phosphate)
704-0-3	Asthma	Orthochlorphenol
704-0-4	Albania	Parachlorphenol
705-0-0	Aaron	Paraldehyde
707-0-0	Aberdeen	Piperidine
708-0-0	Autograph	Thionyl Chloride
709-0-0	Africa	Thiocarbanilide
710-0-1	Ash	Sodium Bisulphite
710-0-2	Asteroid	Sodium Sulphite Technical
710-0-3	Astral	Sodium Sulphite Crystals
711-0-0	Azurite	Sulfuryl Chloride
712-0-1	Aroma	Amyl Xanthate
712-0-2	Aloha	Butyl Xanthate
712-0-3	Arbutus	Potassium Xanthate
712-0-4	Aster	Sodium Xanthate
713-0-0	Hibiseven	Hibitite No. 7
715-0-0	Oly	Oly Compound

Products of Merrimac Manufacture

810-0-0	Butyl	Butyl Acetate
820-0-0	Ethyl	Ethyl Acetate
825-0-1	Lacqone	Fingernail Lacquer R-1464
825-0-2	Lacqtwo	Fingernail Lacquer R-1518
830-0-0	Remover	Manicure Lacquer Remover B-420
840-0-0	Pentasol	Pentasol Acetate

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TOWOLDMON0041739
WATER_PCB-00026208

MONSANTO CONTAINERS

In the first column is given the Powers Accounting Machine Code number. The second column lists the telegraphic code words to be used in wiring St. Louis or the district offices. The third column lists the sizes of containers. Also for the convenience of the Powers Machine, the varying weights which are due to variations in density of our products, which may be contained in standard sizes are included.

Powers Code	Telegraphic Code	Size Containers Can(s)
	kaaba	
4	kaftan	1 ounce
5	kago	¼ pound
6	kaiak	½ "
7	kaif	1 "
8	kaim	2 "
9	kainite	3 "
10	kaiser	4 "
11	kaka	5 "
12	kakapo	6 "
13	kalaazar	6¼ "
14	kalastrum	10 "
15	kalathos	11 "
16	kale	12 "
17	kali	20 "
18	kalium	25 "
19	kalyptra	28 "
20	kamester	40 "
21	kane	50 "
22	kauf	12½ "
23	kaufa	15 "
24	kaufe	17 "
25	kaufi	⅝ "
26	kaufo	18¾ "
27	kaufu	24¼ "
28	kaufab	¾ "
29	kaufac	⅛ pound
30	kaufad	⅞ "
31	kaufag	8 "
32	kaufah	⅜ "
33	kaufeb	2¼ "
34	kaufed	24 "
35	kaufef	16 "

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TOWOLDMON0041740
WATER_PCB-00026209

	kangaroo	Can(s), plain (unlabeled)
40	kaolin	1 ounce
41	kapok	¼ pound
42	kappa	½ "
43	karakul	1 "
44	karn	2 "
45	kaross	3 "
46	karyolysis	4 "
47	katydid	5 "
48	kauri	6 "
49	kava	6¼ "
50	kayles	10 "
51	keb	11 "
52	kebbie	12 "
53	kebboc	20 "
54	keck	25 "
55	kedge	28 "
56	keel	40 "
57	keen	50 "
	keir	Carton(s), or paper box(es)
70	kelp	1 ounce
71	kelt	¼ pound
72	kemp	½ "
73	kench	1 "
74	kennel	5 "
75	keno	10 "
76	kenotron	15 "
77	kent	20 "
78	kepi	25 "
79	keratol	50 "
80	keratox	2 "
	kerchief	Bottle(s)
90	kerf	1 ounce
91	kerite	2 "
92	kermes	3 "
93	kern	4 "
94	kersey	8 "
95	kevel	12 "
96	kex	1 pound
97	khaki	2 "
98	kibe	5 "
99	kid	6¼ "
100	kidney	9 "
101	kieserite	10 "
102	kill	25 "
103	killer	15 "

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TOWOLDMON0041741
WATER_PCB-00026210

	kiln	Bag (s)
115	kin	1 ounce
116	kindred	4 "
117	kine	8 "
118	king	1 pound
119	kink	2 "
120	kino	5 "
121	kip	7 "
122	kistvaen	9⅞ "
123	kitchen	10 "
124	kite	11 "
125	kitten	12½ "
126	knag	100 "
127	knee	200 "
128	knef	15 "
129	kneg	25 "
130	kneh	180 "
131	knek	8 "
132	knell	150 "
	knit	Frail (s)
135	knob	125 pound
136	knoll	130 "
137	knuckle	133 "
138	kop	142 "
	kumquat	Drum (s) or
	laager	Keg (s)
140	labial	25 pound
141	labyrinth	50 "
142	lace	100 "
143	lakey	100 " fibre
144	laconic	120 " "
145	laconite	125 "
146	lacono	75 "
147	laconore	60 "
148	lacore	62 "
149	lacort	112 "
		Drum (s) tin destructible
155	lacrosse	100 pound
156	lacustrine	112 "
157	lad	200 "
158	lagoon	250 "
159	lama	260 "
	lamb	Drum (s) iron indestructible
165	lambda	100 pound
166	lambent	150 "
167	lampoon	200 "

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TOWOLDMON0041742
WATER_PCB-00026211

Drums continued

168	lamprey	225	pound
169	lance	250	"
170	lacinate	300	"
171	landau	325	"
172	landscape	450	"
173	lane	500	"
174	languid	550	"
175	languor	650	"
176	lank	680	"
177	lanner	700	"
178	lanyard	950	"
179	lapel	1,000	"
180	lapid	1,400	"
181	lapillus	1,500	"
199	lapims	Returned drums	
	lapis	Barrel (s)	
200	lapwing	100	pound
201	largo	125	"
202	lariat	150	"
203	lark	175	"
204	larynx	185	"
205	lash	190	"
206	lasket	195	"
207	lass	200	"
208	lasso	225	"
209	laterite	250	"
210	latex	275	"
211	lathe	300	"
212	latin	325	"
213	latten	350	"
214	laud	375	"
215	laurel	400	"
216	lava	425	"
217	lazar	450	"
218	lean	500	"
219	lector	650	"
220	lectora	310	"
221	lectore	715	"
222	lectori	665	"
223	lectoro	525	"
224	lectoru	235	"
225	lectorab	550	"
226	lectoreb	615	"
227	lectorib	565	"

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TOWOLDMON0041743
WATER_PCB-00026212

	leech	Carboy (s)
235	leet	40 pound
236	leghorn	46 "
237	legion	50 "
238	legist	60 "
239	leman	70 "
240	lemur	80 "
241	lentigo	100 "
242	lentoid	114 "
243	leopard	120 "
244	lerot	122 "
245	levee	130 "
246	levitate	134 "
247	libretto	135 "
248	liege	136 "
249	ligament	137 "
250	ligneous	138 "
251	lignite	139 "
252	lily	140 "
253	limbate	141 "
254	liminal	142 "
255	limmer	150 "
256	limonite	170 "
257	limousine	180 "
258	limpid	192 "
259	limpider	133 "
260	limpidox	155 "
261	limpiduf	90 "
264	lindof	Returned carboys
	linden	Tank Car (s)
265	lineage	18 ton
266	ling	25 "
267	lingua	28 "
268	linguate	30 "
269	links	45 "
270	linnet	50 "
271	lion	55 "
280	lira	Single unit
281	lisp	Multi unit
	lithe	Car (s)
282	livre	bulk
	lizard	Cylinder (s)
283	llama	100 pound
284	loco	2,000 "
299	loculus	Salvage, cases, etc.

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TOWOLDMON0041744
WATER_PCB-00026213

Aktinej	**The Aktivin Corp.**	**Passaic, N. J.**
Alkayco	Alkay Co.	Pittsburgh, Pa.
Amoil	American Oil & Supply Co.	Newark, N. J.
Amsolnej	American Solvents & Chemical Co.	Newark, N. J.
Bakemboy	**Bakelite Corp.**	**Perth Amboy, N. J.**
Bestfoods	Best Foods, Inc.	New York City
Bestlouis	" " " (Gold Dust Corp.)	St. Louis
Bernat	Emile Bernat & Sons.	Jamaica Plain, Boston, Mass.
Bond	Bond Manufacturing Co.	Wilmington, Dela.
Bushlinden	W. J. Bush & Co.	Linden, N. J.
Bushchi	" " " " "	Chicago, Ill.
Carter	**Carter Ink Co.**	**Cambridge, Mass.**
Calcowark	Calco Chemical Co.	Newark, N. J.
Colgatjer	Colgate-Palmolive-Peet Co.	Jersey City, N. J.
Colgatchi	" " " "	Chicago, Ill.
Colgatkan	" " " "	Kansas City, Mo.
Colgatcal	" " " "	Berkeley, Calif.
Dewalmy	**Dewey & Almy**	**North Cambridge, Mass.**
Durkeney	Durkee Famous Foods, Inc.	Elmhurst, N. Y.
Durkecal	" " " "	Berkeley, Calif.
Durkee	" " " "	Chicago, Ill.
Fedexterm	**Federal Exterminating Co.**	**New York City**
Getem	**Getem Mfg. Co.**	**Norfolk, Va.**
Hanshein	**Hans Heinrich**	**New York City**
Hynwedun	Hynson, Westcott & Dunning.	Baltimore, Md.
Imperoil	**Imperial Oil Co.**	**Sarnia, Ontario Canada**
Imperonto	" " "	Toronto, Ontario, Canada

TOWOLDMON0041745
WATER_PCB-00026214

Lewismass	**John D. Lewis**	**Mansfield, Mass.**
Lewisri	" " "	Providence, R. I.
Lehninknej	Lehn & Fink, Inc.	Bloomfield, N. J.
Lehninkney	" " " "	New York City
Liberdress	Liberty Dressing Co., Inc.	Gloversville, N. Y.
Manheimer	**J[redacted] Manheimer**	**New York City**
Newarkpap	**Newark Paraffin & Parchment Paper Co.**	**Newark, N. J.**
Norda	Norda Essential Oil & Chem. Co.	New York City
Nordachi	Norda Essential Oil & Chem. Co.	Chicago, Ill.
Newportchem	Newport Chemical Works, Inc.	New York City
Newpobruns	Newport Chemical Works, Inc.	New Brunswick
Newportpas	Newport Chemical Works, Inc.	Passaic, N. J.
Newportchi	" " "	Chicago, Ill.
Newport	Newport Chemical Co.	Milwaukee, Wisc.
Paramet	**Paramet Chemical Corp.**	**Long Island, N. Y.**
Pharmabay	Pharma Chemical Corp.	Bayonne, N. J.
Samethex	**Sameth Exterminating Co.**	**New York City**
Springmeier	Springmeier Shipping Co.	
Springdoor	Springmeier Shipping Co., Storedoor Delivery	
Stomatol	Stomatol Co. of America	Brooklyn, N. Y.
Synfleur	Synfleur Scientific Lab.	Monticello, N. Y.
Synthresin	Synthetic Resins Co.	New York City
Synthguten	" " "	Guttenberg, N. J.
Tubise	**Tubise Chattillon Co.**	**Hopewell, Va.**
Unigrape	**United Grape Prod., Inc.**	**Buffalo, N. Y.**
Unigramat	" " " "	Mattawan, Mich.
Vaporet	**Vaporet Corporation of America**	**New York City**
Wilsonimp	**Wilson Imperial Co.**	**Newark, N. J.**

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WATER_PCB-00026215

TERRITORY NY

Abacot	Abacot Home Specialties Co., Inc.	Allentown, Pa.
Abruzzi	Abruzzi Bottling Co.	New York City
Acespec	Ace Specialty Co.	Scranton, Pa.
Acetolneb	Acetol Products Co.	New Brunswick, N. J
Acetolney	" " "	New York City
Acmebot	Acme Bottling Co.	Philadelphia, Pa.
Adamowicz	Adamowicz Brothers	Brooklyn, N. Y.
Admirchem	Admiration Chemical Co.	Brooklyn, N. Y.
Admirbot	Admiral Bottling Co.	Bronx, N. Y.
Adrian	Adrian Chemical Co.	Pittsburgh, Pa.
Advanrefin	Advanced Floor Refining Co.	Brooklyn, N. Y.
Aeroclub	Aero Club Beverage Co.	Springfield, Mass.
Africeast	African Eastern Trading Co.	New York City
Agfa	Agfa Ansco Corp.	Binghamton, N. Y.
Ahern	W. G. Ahearn	Boston, Mass.
Aktivin	The Aktivin Corp.	New York City
Albanlabs	Albany Laboratories, Inc.	Albany, N. Y.
Albersva	Albers Company	Richmond, Va.
Alcoextrak	Alco Extract Company	Syracuse, N. Y.
Alexander	Jerome Alexander	New York City
Algar	Algar Color & Chem. Corp.	New York City
Alkemprods	Alkem Products Co.	New York City
Allen	M. E. Allen	Newark, N. J.
Allidrug	Allied Drug Co.	Albany, N. Y.
Allifru	Allied Fruit & Extract Co.	New York City
Althouse	Althouse Chemical Co.	Reading, Pa.
Almo	Almo Products Co., Inc.	New York City
Aluminore	Aluminum Ore Co.	Pittsburgh, Pa.
Amalgamated	Amalgamated Dyestuff & Chem. Works	Newark, N. J.
Amanilpa	American Aniline Prod. Co.	Lock Haven, Pa.
Amanil	" " " "	New York City
Ampotheco	American Apothecaries Co.	Long Island, N. Y.
Amdurtan	Amdur Limon Tanning Co.	Peabody, Mass.
Ambrit	Amer.-Brit. Chem. Supplies.	New York City
Ambot	American Bottling Co.	New York City
Catalin	American Catalin Corp.	New York City
Catalincol	" " "	College Point, L. I., New York
Catalinper	" " "	Perth Amboy, N. J.
Amchat	American Chatillon Corp.	Rome, Ga.
Amchew	American Chew'g Gum Corp.	Newark, N. J.
Amchicle	American Chicle Co.	Long Island, N. Y.
Amchond	American Choc. Almond Co.	Jersey City, N. J.
Amcyanamid	American Cyanamid Co.	New York City
Ads	American Druggists Synd.	Long Island, N. Y.
Amferm	American Ferment Co.	Buffalo, N. Y.
Amsol	American Solv. & Chem. Co.	New York City
Amsolcres	" " " " "	New Orleans, La.
Amsolcol	" " " " "	Agnew, Calif.

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Amvanco	American Vanilla Company.	York, Pa.
Amara	Amara Laboratories	New York City
Anasargin	The Anasargin Chem. Co.	Winchester, Tenn.
Anderie	F. W. Anderson	Erie, Pa.
Andrew	Andrew Chem Co.	Brooklyn, N. Y.
Angloam	Anglo-Amer. Pharm. Corp.	New York City
Ansbacher	A. B. Ansbacher Co.	New York City
Antidolor	The Antidolor Mfg. Co.	New York City
Apexchem	Apex Chemical Company	New York City
Apollo	Apollo Bottling Co.	New York City
Apothecaries	Apothecaries Hall Company.	Waterbury, Conn.
Arcadchem	Arcadia Chemical Corp.	Brooklyn, N. Y.
Arcadfood	Arcadia Food Co.	New York City
Arcalnew	Arctic Fruit Ale Co.	Newark, N. J.
Arlington	The Arlington Chem. Co.	Yonkers, N. Y.
Armitage	John L. Armitage & Co.	Newark, N. J.
Arner	The Arner Co., Inc.	Buffalo, N. Y.
Arnould	D. Arnould & Co.	New York City
Atkinson	Atkinson Choc. Company	Brooklyn, N. Y.
Atlangypco	Atlantic Gypsum Prod. Co.	Boston, Mass.
Atlasport	Atlas Portland Cement Co.	New York City
Atlaspowd	Atlas Powder Company	Wilmington, Dela.
Auerbach	D. Auerbach & Sons	New York City
Ausman	H. M. Ausman	Saratoga Springs, N. Y.
Austin	The Austin Mfg. Co.	Wilkes Barre, Pa.
Ausnic	Austin Nichols & Co.	Brooklyn, N. Y.
Avonbot	Avon Springs Bottling Wks.	Avon, N. Y.

Babcockco	**A. P. Babcock Co.**	**East Rutherford, N. J.**
Bachmanco	Bachman Chocolate Mfg. Co.	Mount Joy, Pa.
Bakelite	Bakelite Corp.	New York City
Bakefield	" "	Bloomfield, N. J.
Bakechi	" "	Chicago, Ill.
Baker	J. T. Baker Chemical Co.	Phillipsburg, N. J.
Bakwalt	Walter Baker Company, Ltd.	Dorchester, Mass.
Baxtract	Baker Extract Co.	Springfield, Mass.
Bakservbr	Baker Service Bureau, Inc.	New York City
Balcosales	Balco Sales Co.	Lancaster, Pa.
Ballabot	Ballah Springs Bottling Co.	Grant Town, W. Va.
Barclayco	Barclay Chemical Co.	New York City
Baumgartner	Andrew Baumgartner Co.	Baltimore, Md.
Bayer	The Bayer Co., Inc.	New York City
Bechandler	The Beckwith Chandler Co.	Newark, N. J.
Beechnut	Beechnut Packing Co.	Canajorarie, N. Y.

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Belgian	Belgian Trading Co.	New York City
Belhomphar	Bell Homeopathic Pharmacy.	New York City
Bellco	Bell & Co., Inc.	Orangeburgh, N. Y.
Bendiner	Bendiner & Schlesinger	New York City
Beringer	Geo. M. Beringer, Inc.	Camden, N. J.
Best	Herbert Best	Nassau, N. Y.
Bestco	Best Chemical Co.	Allentown, Pa.
Birklelu	Louis Birkle	Stapleton, Staten Is.
Bischoff	Ernst Bischoff & Co.	New York City
Bixmaf	Biscuit & Cracker Mfg. Co.	New York City
Blackman	Blackman & Blackman, Inc.	New York City
Blackstone	Blackstone Mfg. Co.	Newark, N. J.
Blodgettco	The G. S. Blodgett Co., Inc.	Burlington, Vt.
Bloedevic	Victor G. Bloede Co.	Baltimore, Md.
Blumenthal	Blumenthal Brothers	Philadelphia, Pa.
Boddie	F. S. Boddie	Winston-Salem, N. C.
Bohannon	F. M. Bohannon	Winston-Salem, N. C.
Boleyco	C. H. Boley Co.	Philadelphia, Pa.
Boss	Boss & Seiffert Co., Inc.	Providence, R. I.
Bosbev	Boston Beverage Co.	New York City
Bosblack	Boston Blacking Co., Inc.	East Cambridge, Mass.
Bosmiddle	" " " "	S. Middleton, Mass.
Bowmel	Bowman Mell & Co., Inc.	Harrisburg, Pa.
Boyce	Boyce Extract Co.	Brooklyn, N. Y.
Bradurgkl	James Buchanan Brady Urological Institute	Baltimore, Md.
Bradbak	Bradley & Baker	Baltimore, Md.
Brame	R. M. Brame & Sons	N. Wilkesboro, N. C.
Brewchoc	Brewster Ideal Chocolate Co.	Philadelphia, Pa.
Bricked	Edgar Brick & Sons	Crosswicks, N. J.
Bridge	C. D. Bridge	Walterboro, S. C.
Bridgerusl	Bridgeman-Russell Co.	Buffalo, N. Y.
Brilliant	Brilliant Chemical Corp.	Brooklyn, N. Y.
Bristbot	Bristol Bottling Works.	Brooklyn, N. Y.
Bristol	Bristol Myers Co.	New York City
Bristored	C. Edwin Bristor.	Baltimore, Md.
Britambac	British-Amer. Tobacco Co.	New York City
Brockett	H. D. Brockett	Bouckville, N. Y.
Brodhead	Henry Broadhead & Co.	New York City
Brooktexdy	Brooklyn Textile Dyeing Co.	Brooklyn, N. Y.
Brookner	Nelson A. Brookner	West Sand Lake, N. Y.
Brookbro	Brooks Brothers	New York City
Brownson	Brown & Williamson Tobacco Corp.	Winston-Salem, N. C.
Bruchem	Bruce Chemical Co.	New York City
Bruns	Christian Bruns Co.	Newark, N. J.
Bufchem	Buffalo Electro-Chemical Co., Inc.	Buffalo, N. Y.
Buffington	Buffington's, Inc.	Worcester, Mass.

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Bull	Bull Moose Bottling Co.	Brooklyn, N. Y.
Bunny	Wm. D. Bunny Co.	Troy, N. Y.
Burnetco	The Burnet Co.	New York City
Boroughbro	Burrough Brothers Mfg. Co.	Baltimore, Md.
Burwelcom	Burroughs Wellcome & Co.	New York City
Burton	W. Burton & Company	New York City
Bushco	W. J. Bush & Co.	New York City
Bushwala	Wallace A. Bush	New York City
Busseco	Frank A. Busse Co., Inc.	Brooklyn, N. Y.
Butter	Butter Cream Confect. Corp.	Union City, N. J.

Cahnco	**Cahn Mfg. Co.**	**Philadelphia, Pa.**
Calco	Calco Chemical Co.	Bound Brook, N. J.
Callawawe	Wm. E. Callaway	Jersey City, N. J.
Califumco	California Perfume Co.	Suffern, N. Y.
Calperfco	" " "	New York City
Campbelco	Wm. J. Campbell Co.	Philadelphia, Pa.
Campbelhy	Harry Campbell	Brooklyn, N. Y.
Cane	J. Cane & Son	New York City
Capcitbot	Capitol City Orange Crush Bottling Co.	Columbia, S. C.
Caplax	Capital Lax Co.	Winston-Salem, S. C.
Capudine	Capudine Chemical Co.	Raleigh, N. C.
Caravan	Caravan Products Co., Inc.	New York City
Carriereng	Carrier Engineering Corp.	Newark, N. J.
Cavalier	The Cavalier Corp.	Baltimore, Md.
Cellanese	Cellanese Corp.	Cumberland, Md.
Celluloid	Celluloid Corp.	Newark, N. J.
Chambco	The Chamberlain Co.	Pittsburgh, Pa.
Charlesbot	Charleston Bottling Works	Charleston, W. Va.
Chemdyecor	Chemical & Dye Corp.	Springfield, N. J.
Chemindust	Chemical Industrial Co.	Providence, R. I.
Chero	Chero Cola Bottling Co.	Kingstrue, S. C.
Chieftain	The Chieftain Mfg. Co.	Baltimore, Md.
Childpulp	Childs Pulp Colors, Inc.	Brooklyn, N. Y.
Chocoducts	Chocolate Products Co.	Baltimore, Md.
Chocoref	Chocolate Refiners Co., Inc.	Mansfield, Mass.
Cibaco	Ciba Company, Inc.	New York City
Citibak	The City Baking Co.	Baltimore, Md.
Citibot	City Bottling Works	Martinsburg, W. Va.
Citichemjy	City Chemical Company	Jersey City, N. J.
Citichem	" " "	New York City
Citwelfare	City of New York Dept. Public Welfare.	
Claflin	Geo. L. Claflin Co.	Providence, R. I.
Otisclapp	Otis Clapp & Son, Inc.	Boston, Mass.

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TOWOLDMON0041750
WATER_PCB-00026219

Clarkdel	The D. L. Clark Bros. Co.	Pittsburgh, Pa.
Clarkscot	Clark & Scott	Scranton, Pa.
Clarkson	Clarkson Chem. & Supply Co.	Williamsport, Pa.
Clarku	Clark Univ. Dept. Chemistry.	Worcester, Mass.
Clawson	The Clawson Co.	Philadelphia, Pa.
Claytonex	Clayton Extract Co.	Hanover, Pa.
Clintonbot	Clinton Bottling Works	New York City
Cocoprodx	Cocoa Products Corp.	Norfolk, Va.
Cohen	H. B. Cohen Drug Co.	New York City
Colwinjers	Coleman & Co.'s Wincarnis Corp.	Jersey City, N. J.
Colwincars	" " " "	New York City
Colasta	The Colasta Company, Inc.	Hoosick Falls, N. Y.
Comey	R. H. Comey Brooklyn Co., Inc.	Brooklyn, N. Y.
Comdisfsup	Commercial Disinfectant & Supply Co.	Brooklyn, N. Y.
Comsyrup	Commercial Syrup Co.	New York City
Comcolchem	Commonwealth Color & Chem. Co.	Brooklyn, N. Y.
Duval	Compagnie Duval	New York City
Parento	Compagnie Parento, Inc.	New York City
Cawpound	C A W Compound Co.	Pittsburgh, Pa.
Comptroller	Comptroller City of New York	
Connichem	Connecticut Chemical & Disinfectant Co.	New Haven, Conn.
Conronco	C. Conron & Co.	New York City
Consolidate	Consolidated Color & Chemical Co.	New York City
Conbisk	Consumer's Biscuit Co.	Brooklyn, N. Y.
Condist	The Consumers Dist. Co.	Pittsburgh, Pa.
Contexol	Contex Color Co.	Newark, N. J.
Contchem	Continental Chemical Co.	New York City
Continental	Continental Tobacco Co.	New York City
Conversele	Converse Elec. Mfg. Co.	Poughkeepsie, N. Y.
Cookfalls	Cooks Falls Dye Works	New York City
Cookchem	Cook Chemical Co.	Brooklyn, N. Y.
Coweevil	Cooperative Boll Weevil Control Investigations	Florence, S. C.
Cooperu	Cooper Union	Passaic, N. J.
Corexco	Co Rex Co.	New York City
Coronabot	Corona Bottling Co.	Corona, N. Y.
Corrizo	Corrizo Extract Co.	New York City
Cosmdrugs	Cosmetics & Drugs, Inc.	New York City
Cosmopolitan	Cosmopolitan Bottling Co.	New York City
Coxconfco	Cox Confectionery Co.	East Boston, Mass.
Craig	Frank L. Craig	Schenectady, N. Y.
Crandall	Crandall Fettee Company	New York City
Crystprod	Crystals Products Co.	New York City
Cresco	Cresco Company	Long Island, N. Y.
Curtinhowe	Curtin-Howe Corp.	New York City

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TOWOLDMON0041751
WATER_PCB-00026220

Dagetmilr	**Daggett & Miller Co., Inc.**	**Providence, R. I.**
Dairlab	Dairy Laboratories	Philadelphia, Pa.
Dairleag	Dairymen's League Cooperative Assn., Inc.	New York City
Davierose	Davies Rose & Co., Ltd.	Boston, Mass.
Daviswilm	Wm. Davis	New York City
Daviken	R. B. Davis Company	Hoboken, N. J.
Davislawr	Davis & Lawrence Co.	New York City
Daychem	Day Chemical Co.	Newark, N. J.
Daytonprie	Dayton Price & Co., Ltd.	New York City
Debrook	The DeBrook Co.	Brooklyn, N. Y.
Dehlstein	Dehl & Stein	Newark, N. J.
Deich	A. Deich	Passaic, N. J.
Delisser	De Lisser & Co.	New York City
Delmonte	Del Monte Sweet Shop	Philadelphia, Pa.
Dennismart	Martin Dennis	Newark, N. J.
Densmorjas	Jas. Densmore Co.	Brooklyn, N. Y.
Deplizzie	Dept. of Interior, St. Elizabeth's Hospital	Washington, D. C
Devorenlab	Devoe & Raynolds, Inc.	Newark, N. J.
Dewey	H. T. Dewey & Sons Co.	New York City
Diabot	Diamond Springs Bottling Works.	Brooklyn, N. Y.
Dillco	The Dill Co.	Norristown, Pa.
Directsala	Direct Sales Co., Inc.	Buffalo, N. Y.
Dolanflav	Dolan Flavoring Co.	Portland, Me.
Donzaphar	Donza Pharmacy	Brooklyn, N. Y.
Doughnicut	Doughnut Machine Co.	Ellicott City, Md.
Drakecorp	Drake Corp.	Norfolk, Va.
Drewcorp	Drew Corporation	New York City
Dreyer	P. R. Dreyer, Inc.	New York City
Dreyfusco	Dreyfus Co., Inc.	New York City
Drugmere	Drug Merchants of America, Inc.	New York City
Drugproco	The Drug Products Co., Inc.	Long Island, N. Y.
Dryrock	Dry Rock Ginger Ale Co.	Syracuse, N. Y.
Dandschem	D & S Chemical Co.	Endicott, N. Y.
Duffymot	Duffy Mott Co., Inc.	New York City
Dunnthos	Thos. W. Dunn Co.	New York City
Dupont	E. I. DuPont de Nemours & Co., Inc.	Wilmington, Dela.
Dupontcar	E. I. DuPont de Nemours & Co., Inc.	Carney's Point, N. J.
Dupontrayn	Dupont Rayon Co., Inc.	Buffalo, N. Y.
Dupontvise	DuPont Viscoloid Co.	Arlington, N. J.
Dyechemine	Dyes & Chemicals, Inc.	Brooklyn, N. Y.
Dyprochem	Dye Products & Chem. Co., Inc.	New York City
Dyptonej	Dye Products & Chem. Co.	Newark, N. J.
Dyxco	D Y X Co.	New York City

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TOWOLDMON0041752
WATER_PCB-00026221

Englebot	**Eagle Bottling Co.**	**Brooklyn, N. Y.**
Eakins	J. S. & W. R. Eakins	Brooklyn, N. Y.
Eastbakmas	Eastern Baking Co.	Chelsea, Mass.
Eastdrug	Eastern Drug Co.	Boston, Mass.
Eastext	Eastern Extract Co.	Boston, Mass.
Eastkodak	Eastman Kodak Co.	Rochester, N. Y.
Eckelsco	H. S. Eckels & Co.	Philadelphia, Pa.
Edison	Thos. A. Edison, Inc.	Orange, N. J.
Egyptian	The Egyptian Lacquer Mfg. Co.	New York City
Eimerend	Eimer & Amend	New York City
Electblech	Electro Bleaching Gas Co.	New York City
Elkinscola	Elkins Coca Cola Bottling Co.	Elkins, W. Va.
Elmidro	Elmira Drug & Chem. Co.	Elmira, N. Y.
Emerol	Emerol Mfg. Co.	New York City
Empiscuit	Empire Biscuit Co.	Brooklyn, N. Y.
Eriedro	Erie Drug Co.	Erie, Pa.
Eurekafect	Eureka Disinfectant Co.	Brooklyn, N. Y.
Everetbarn	Everett & Barron Co.	Providence, R. I.
Everybodys	Everybody's Chewing Gum Co.	Newark, N. Y.
Evernu	Evernu Mfg. Co.	Long Island, N. Y.
Exactprodx	Exact Products Co.	New York City
Excelsrbot	Excelsior Bottling Co.	Pittsburgh, Pa.
Exlax	Ex Lax Mfg. Co.	Brooklyn, N. Y.
Expello	Expello Corp.	Dover, N. H.

Fablenco	**R. Fablen & Co.**	**New York City**
Faivrlab	Faivre Laboratories	New York City
Fambotco	Family Bottling Works	Rochester, N. Y.
Farlowdrg	Farlow Drug Co.	Baltimore, Md.
Fauthbe	B. C. Fauth	Albany, N. Y.
Favorspec	Favorite Specialty Co.	Buffalo, N. Y.
Fedrlbot	Federal Bottling Co.	Brooklyn, N. Y.
Fedfurdye	Federal Fur Dyeing Co.	New York City
Fedlabs	Federal Laboratories, Inc.	Richmond, Va.
Fedinsulat	Federal Insulating Corp.	Yonkers, N. Y.
Fedwafer	Federal Sweets & Wafer Co.	New York City
Feeleyej	E. J. Feeley, Inc.	Boston, Mass.
Felchemco	Felton Chemical Co.	Brooklyn, N. Y.
Felsibco	Felton Sibley & Co.	Philadelphia, Pa.
Fenton	The Fenton Wholesale Drug.	Rochester, N. Y.
Ferboco	The Ferbo Co.	Bayonne, N. J.
Fiberloid	The Fiberloid Corp.	Indian Orchard, Mass.

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TOWOLDMON0041753
WATER_PCB-00026222

Fidelity	Fidelity Sugar Co.	New York City
Fifthosp	Fifth Avenue Hospital	New York City
Fingerh	H. Finger Co.	New York City
Fink	J. H. A. Fink	New York City
Fisher	Fisher Scientific Co.	Pittsburgh, Pa.
Fitchdust	The Fitch Dustdown Co.	Baltimore, Md.
Flocoxido	Flocos & Xidi Co.	Pittsburgh, Pa.
Floodcon	Flood & Conklin Co.	Newark, N. J.
Florasynth	Florasynth Laboratories	New York City
Florencbot	Florence Bottling Co.	Florence, S. C.
Flyerusl	Flyde & Russell	Albany, N. Y.
Folbson	H. Folb & Sons	Brooklyn, N. Y.
Forhan	The Forhan Co.	New York City
Forry	The David Forry Tobacco Co.	York, Pa.
Fortpitt	Fort Pitt Chemical Co.	Pittsburgh, Pa.
Fostburn	Foster-Milburn Co., Inc.	Buffalo, N. Y.
Fougera	E. Fougera & Co., Inc.	New York City
Frankford	Frankford Chemical Co.	Philadelphia, Pa.
Fraser	The Fraser Tablet Co.	Brooklyn, N. Y.
Freemanel	L. E. Freeman	New Haven, Conn.
Frenkreme	French Cream Company	New York City
Frenchemc	French Products, Inc.	Paterson, N. J.
Friedman	Aaron Friedman	New York City
Friebro	Fries Brothers	New York City
Fritzsche	Fritzsche Bros., Inc.	New York City
Frostvens	Frost, Stephens Co.	Elmira, N. Y.
Fropopbos	Frozen Pop Co.	Boston, Mass.
Fropoprox	" " "	Roxbury, Mass.
Fruitprodx	Fruit Products Co.	New York City
Fuchsons	H. Fuchs & Sons	New York City
Fulvalu	Ful-Val-U Company	Pittsburgh, Pa.

Galax	Galax Remedies Co.	Asheville, N. C.
Gardnerfal	J. R. Gardner	Fallsburg, N. Y.
Gardnerha	H. A. Gardner Laboratories	Washington, D. C.
Garfanilin	Garfield Aniline Works	Garfield, N. J.
Garftea	Garfield Tea Co.	Brooklyn, N. Y.
Garfield	" " "	New York City
Garfunkel	M. Garfunkel	New York City
Garnet	Geo. Garnet Co.	Allentown, Pa.
Garrettroy	Leroy D. Garrett	Philadelphia, Pa.
Garrett	Garrett & Co.	Brooklyn, N. Y.
Garstdair	Garst Brothers Dairy, Inc.	Roanoke, Va.
Garvey	P. J. Garvey	Parkersburg, W. Va.
Gasco	Gasco Specialty Co.	New York City

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Gashlefko	Gash & Lefkowitz	Newark, N. J.
Gatorange	Gate City Orange Crush Bottling Co.	Greensboro, N. C.
Gateshomad	Gates Home Made Candy Co.	Philadelphia, Pa.
Genanil	General Aniline Works	New York City
Gengrass	" " "	Graselli, N. J.
Genrensal	" " "	Renssalaer, N. Y.
Genchem	General Chemical Co.	New York City
Gencomp	General Compounding Co.	Glendale, N. Y.
Genfect	General Disinfectant Co.	Brooklyn, N. Y.
Gendye	General Dyestuff Corp.	New York City
Gendrug	General Drug Co.	New York City
Genpitt	General Electric Co.	Pittsfield, Mass.
Genelect	" " "	Schenectady, N. Y.
Generail	General Oil & Chemical Co.	Baltimore, Md.
Genplasts	General Plastics, Inc.	N. Tonawanda, N. Y.
Gensup	General Supply Committee	Washington, D. C.
Gentests	General Testing Laboratory	Allentown, Pa.
Gentilea	A. Gentile	Brooklyn, N. Y.
Georgetown	Georgetown Visitation Convent.	Washington, D. C.
Georgtalc	Georgia Talc Co.	Asheville, N. C.
Giantbot	Giant Bottling Works	Laurinburg, N. C.
Gibsnow	Gibson Snow Co., Inc.	Albany, N. Y.
Gibsnoroch	" " " "	Rochester, N. Y.
Gibsnosyra	" " " "	Syracuse, N. Y.
Gilbertlab	Gilbert Laboratories	Morristown, N. J.
Gillespie	William Gillespie & Son	Philadelphia, Pa.
Gilman	Z. D. Gilman	Washington, D. C.
Gilmore	W. J. Gilmore Drug Co.	Pittsburgh, Pa.
Gilpen	The Henry B. Gilpen Co.	Baltimore, Md.
Gingrich	Gingrich Nistle Drug Co.	Reading, Pa.
Girard	Girard Mfg. Co.	Brooklyn, N. Y.
Givaudela	Givaudan Delawanna, Inc.	New York City
Glasmet	Glass & Metal Engin'r'g Co.	Wheeling, W. Va.
Glensfalls	Glens Falls Pharm. Co., Inc.	Glens Falls N. Y.
Globeyts	Globe Extract & Color Works, Inc.	Brooklyn, N. Y.
Glorybot	Glory Bottling Works	Wheeling, W. Va.
Goldberg	E. Goldberg & Sons	New York City
Goldmil	Golden Leader Milling Co.	Middletown, Pa.
Goldpick	Golden's Pickle Works	Brooklyn, N. Y.
Gonyeaj	John Gonyea	Saranac, N. Y.
Gowoco	Gordon-Wolf & Cowen Co.	New York City
Gortonchoc	Gorton Chocolate Co.	Corning, N. Y.
Gottschall	P. B. Gottschall & Co.	Harrisburg, Pa.
Goulard	Goulard & Olena, Inc.	New York City
Grahamber	Graham & Berwin, Inc.	New York City
Granger	Granger & Co.	Buffalo, N. Y.
Grangcalc	Granger Calcium Prod. Co.	Brooklyn, N. Y.

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Graeschem	The Grasselli Chem. Co., Inc.	New York City
Grasclev.	" " " " "	Cleveland, Ohio
Grayco	Wm. S. Gray & Co.	New York City
Grajer	Great Atlantic & Pacific Tea Co.	Jersey City, N. J.
Greenbros.	Green Brothers Co.	Springfield, Mass.
Greenberg	H. Greenberg	New York City
Griffin	Griffin Mfg. Co.	New York City
Grobi	I. Grob	New York City
Grofmoyer	Wm. Groff Moyer Labs.	Mechanicsburg, Pa.
Grogan	L. Grogan	Washington. D. C.
Grosvenor	Wm. M. Grosvenor, Ph.D.	New York City
Grotta	Adolphe Grotta	Germantown, Philadelphia, Pa.
Guarantex	Guarantee Exterminating Co.	New York City
Gudekunst	O. J. Gudekunst Fruit Products Co.	Gowanda, N. Y.
Gumpert	S. Gumpert Co., Inc.	Brooklyn, N. Y.
Guyton	Arthur M. Guyton	Uniontown, Pa.

Hale	**J. V. Hale Company**	**Boston, Mass.**
Hallock	Hallock Denton Co.	Newark, N. J.
Hancebro	Hance Bros. & White, Inc.	Philadelphia, Pa.
Happiness	Happiness Candy Stores, Inc.	New York City
Hardesty	Hardesty & Stineman	Pittsburgh, Pa.
Harkavy	H. Harkavy	New York City
Harlemchem	Harlem Chem. Co.	Long Island, N. Y.
Harmoncir	Harmon Color Works	Brooklyn, N. Y.
Harper	The Robert N. Harper Co.	Washington. D. C.
Harrison	Harrison Nurseries	Berlin, Md.
Harveyco	The G. F. Harvey Co.	Saratoga Springs, N. Y.
Healproco	Health Products Corp.	Newark, N. J.
Hebeco	The Hebe Company	Providence, R. I.
Heideinc	Henry Heide, Inc.	New York City
Hein	The Hein Co.	Pittsburgh, Pa.
Heintzwebr	Heintz & Weber Co.	Buffalo, N. Y.
Helfrich	O. B. Helfrich	Orange, N. J.
Helmerz	Heller & Mertz Co.	Newark, N. J.
Helmerny	" " " "	New York City
Hemstrought	H. B. Hemstrought	Utica, N. Y.
Hendler	Hendler Creamery Co.	Baltimore, Md.
Henanhen	Henry & Henry, Inc.	Buffalo, N. Y.
Hercucal	Hercules Chemical Co.	Philadelphia, Pa.
Hercupowd	Hercules Powder Co.	Wilmington, Dela.
Herwitt	Herman & Witt	Brooklyn, N. Y.
Herrman	Morris Herrman & Co.	New York City

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Heyden	Heyden Chemical Corp.	New York City
Heydengar	" " "	Garfield, N. J.
Heydenboy	" " "	Perth Amboy, N. J.
Hickok	J. N. Hickok & Son	New York City
Hildick	Hildick Corp	New York City
Hoffmanarn	Arnold Hoffman Co., Inc.	New York City
Hoffaroche	Hoffman LaRoche Chemical Works, Inc.	New York City
Hogedav	Hoge Davis Drug Co.	Wheeling, W. Va.
Holbrook	C. E. Holbrook	Attleboro, Mass.
Hollis	Hollis Chocolate Co.	Reading, Pa.
Holmerden	The Holmerden Co.	Stratford, Conn.
Hookerelec	Hooker Electrochemical Co.	New York City
Horner	J. B. Horner, Inc.	New York City
Hornanhard	Horn & Hardart Co.	New York City
Houghton	G. S. C. Houghton	New York City
Houghtonco	E. F. Houghton & Co.	Philadelphia, Pa.
Housons	Jacob House & Sons	Buffalo, N. Y.
Hosken	Hosken & Co.	New York City
Howefrench	Howe & French, Inc.	Boston, Mass.
Hoytbros	Hoyt Brothers, Inc.	Newark, N. J.
Hoytco	Arthur S. Hoyt & Co.	New York City
Huberinc	J. M. Huber, Inc.	Brooklyn, N. Y.
Huisking	Charles Huisking	New York City
Hunckemax	Max Huncke Chemical Co.	Brooklyn, N. Y.
Hunter	H. B. Hunter	Norfolk, Va.
Hymes	Hymes Bros. Co.	New York City
Hustonta	T. A. Huston & Co.	Portland, Me.
Hutchinson	D. W. Hutchinson	New York City
Huttlinger	Huttlinger & Struller	New York City
Huylers	Huyler's	New York City

Idico	Idico Bros.	Woodbridge, N. J.
Ilchester	Ilchester Farms	Ilchester, Md.
Inspeiden	Innis-Speiden Co.	New York City
Intertar	The International Combustion Tar & Chemical Corp.	New York City
Interink	International Ink, Inc.	Brooklyn, N. Y.
Interlabs	International Laboratories	Rochester, N. Y.
Internik	The International Nickle Co.	New York City
Intshopo	International Shoe Polish Co.	Lynn, Mass.
Interstate	Interstate Mfg. Co.	Norfolk, Va.
Ivinson	J. S. Ivins Son, Inc.	Philadelphia, Pa.

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Jaburg	**Jaburg Brothers**	**New York City**
Janitors	Janitors Supply Co.	Pittsburgh, Pa.
Jakasup	Jay Kay Supply Co.	New York City
Jeffell	Jeffrey Fell Co.	Buffalo, N.Y.
Jello	The Jello Company	LeRoy, N. Y.
Jerbeloo	Jersey Belle Food Prod. Co.	Jersey City, N. J.
Jetphar	J E T Pharmacal Co.	Allentown, Pa.
Joanite	Joanite Corp.	Long Island, N. Y.
Johnsoneu	Charles Eneu Johnson & Co.	Philadelphia, Pa.
Jones	John Jones	New York City
Jopps	Jopps Drug Co.	Buffalo, N. Y.
Junbev	Junior Beverage Co.	New York City

Kaasla	**Louis A. Kaas**	**Newark, N. J.**
Kachurin	Kachurin Drug Co.	New York City
Kalerd	Kalerd Lab. Co., Inc.	Pittsburgh, Pa.
Kalkman	Kalkman Pharmacy, Inc.	Newport, R. I.
Kalpheno	Kal Pheno Chemical Co.	Philadelphia, Pa.
Kaplanmax	Max Kaplan Flavoring Corp.	New York City
Keasmat	Keasbey & Mattison Co.	Ambler, Pa.
Keiber	H. Frederick Keiber	Staten Island, N. Y.
Kellerbro	Keller Brothers	New York City
Kellyco	George A. Kelly Co.	Pittsburgh, Pa.
Kellygeo	George J. Kelly, Inc.	Lynn, Mass.
Kemiko	Kemiko Mfg. Co.	Newark, N. J.
Kemplane	Kemp & Lane, Inc.	Leroy, N. Y.
Kennedyco	J. R. Kennedy Co.	Philadelphia, Pa.
Kerrbros	Kerr Brothers	Brooklyn, N. Y.
Kessler	Kessler Chemical Co.	Orange, N. J.
Keychem	Keystone Chemical Co.	Fairfield, Pa.
Keylub	Keystone Lubricating Co.	Philadelphia, Pa.
Kimbroco	Kimball Brothers & Co., Inc.	Enosburg Falls, Vt.
Kingdrug	King Drug Co.	Raleigh, N. C.
Kinney	B. V. Kinney, Inc.	Gouverneur, N. Y.
Kirchenbaum	E. Kirchenbaum	New York City
Kismet	Kismet Beverage Co.	Brooklyn, N. Y.
Kleckner	David Kleckner	New York City
Klipsteina	A. Klipstein & Co.	New YorkCity
Klipschi	" " " "	Chicago, Ill.
Klipstein	E. C. Klipstein & Sons	Newark, N. J.
Klipscharl	" " " " "	S. Charleston, W. Va.
Knightcorp	A. A. Knights & Sons, Corp.	Roxbury, Mass.
Knorpp	Knorpp Candy Co.	Brooklyn, N. Y.
Knorrchas	Charles T. Knorr	Irvington, N. J.
Kohler	Kohler Mfg. Co.	Baltimore, Md.
Kohnstamm	H. Kohnstamm & Co., Inc.	New York City
Kolynos	The Kolynos Co.	New Haven, Conn.

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Kraemer	Kraemer & Wanke	New York City
Krystal	Krystal Corp	Washington, D. C.
Kusenco	W. E. Kusen & Co	Pittsburgh, Pa.
Kuseyer	Kusen & Meyer	Pittsburgh, Pa.

Lakerlbot	Lake Erie Bottling Works	Lackawanna, N. Y.
Lambkins	James L. Lambkins Son	Baltimore, Md.
Lamotte	The Lamotte Chem. Prod. Co.	Baltimore, Md.
Larkin	Larkin Co., Inc.	Buffalo, N. Y.
Lathrop	H. R. Lathrop & Co.	New York City
Lauckstob	Laucks Bros. & Co.	Red Lion, Pa.
Lavanburg	Fred L. Lavanburg Co.	New York City
Lazelle	Lazelle Perfumer Co.	Newburgh, N. Y.
Leaderbot	Leader Bottling Co.	Brooklyn, N. Y.
Lebo	Lebo Extract Co.	Lebanon, Pa.
Leggett	Francis H. Leggett	Landisville, N. J.
Lehighport	Lehigh Portland Cement Co.	Allentown, Pa.
Lemoine	Pierre Lemoine, Inc.	New York City
Lenzner	Sol Lenzner Corp.	Buffalo, N. Y.
Lettsan	Letts & Church	New York City
Letzelter	Letzelter Products Co.	Pittsburgh, Pa.
Leverbros	Lever Brothers Co.	Cambridge, Mass.
Levryeri	Samuel C. Levy	Erie, Pa.
Lewychem	Lewy Chemical Co.	New York City
Libertybak	Liberty Baking Co.	Pittsburgh, Pa.
Lichtina	Aaron Lichtin, Ph.G.	Philadelphia, Pa.
Lichty	Robert Lichty (same as Abacot)	Allentown, Pa.
Lieberleo	Leo Lieber	Philadelphia, Pa.
Unidrug	Louis K. Liggett Co.	New York City
Liggetny	Ligget & Myers Tob. Co.	New York City
Limpervine	Limpert Bros., Inc.	Vineland, Cumberland County, N. J.
Limpert	" " "	New York City
Linder	Linder & Co., Inc.	Boston, Mass.
Littleinc.	Arthur D. Little, Inc.	Cambridge, Mass.
Littlenew	W. D. Little	Newton Junct., N. H.
Litljug	The Little Brown Jug Co.	Reading, Pa.
Livingston	The Livingston Co.	Billerica, Mass.
Loebs	Loebs Dietetic Food Bakery	New York City
Loft	Loft, Inc.	New York City
Lonstarex	Lone Star Exterminating Co.	New York City
Longibev	Long Island Beverage Co.	Astoria, N. Y.

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Loosbost	Loose Wiles Biscuit Co.	Boston, Mass.
Loosiles	" " " "	Kansas City
Looslong	" " " "	Long Island, N. Y.
Loospitts	" " " "	Pittsburgh, Pa.
Looslouis	" " " "	St. Louis, Mo.
Lorillard	P. Lorillard Co.	New York City
Lovingco	G. K. Loving Co.	Richmond, Va.
Lowbrook	Joe Lowe Corp.	Brooklyn, N. Y.
Lowelled	Edw. I. Lowell.	New York City
Lowenstein	Jos. H. Lowenstein, Inc.	Brooklyn, N. Y.
Lowenthal	D. Lowenthal.	New Rochelle, N. Y.
Lowicki	John Lowicki.	Buffalo, N. Y.
Lucasco	John Lucas & Co., Inc.	Philadelphia, Pa.
Ludens	Ludens, Inc.	Reading, Pa.
Lueders	George Lueders & Co.	New York City
Lustronco	Lustron Co., Inc.	Boston, Mass.
Lyonsons	L. W. Lyons & Sons	New York City

Macbridge	**MacCambridge & MacCambridge Co.**	**Washington, D. C.**
Maccann	McCann Brothers.	Clinton, Mass.
Maccormick	McCormick & Co., Inc.	Baltimore, Md.
Macoyrin	McCoy's Rinolin Co., Inc.	New York City
Maccrum	McCrum Drug Co., Inc.	Lexington, Va.
Macdowell	MacDowell Brothers.	Ogdensburg, N. Y.
Macintyre	Jos. D. McIntyre.	Philadelphia, Pa.
Mackallor	E. C. McKallor Drug Co.	Binghamton, N. Y.
Mackesalb	McKesson-Gibson Co., Inc.	Albany, N. Y.
Mackesnow	McKesson Gibson Snow Co., Inc.	New York City
Makesmass	McKesson & Robins, Inc.	Bridgeport, Mass.
Makesson	" " " "	New York City
Macneill	Robert McNeill.	Philadelphia, Pa.
Mallinckney	Mallinckrodt Chemical Wks.	New York City
Mallinckjer	" " "	Jersey City, N. J.
Mallinckrodt	" " "	St. Louis, Mo.
Mallinckcan	" " "	Montreal, Canada
Maaswald	Maas & Waldstein.	Newark, N. J.
Magerbros	Mager Brothers, Inc.	New York City
Magic	Magic Soda & Min. Water Co.	New York City
Maginnes	W. C. Maginnes.	White Plains, N. Y.
Magbee	Magnus Mabee & Reynard, Inc.	New York City
Magnuson	Magnuson Products Corp.	Brooklyn, N. Y.
Mahlerco	Mahler Exterm. Co., Inc.	New York City
Maimes	S. Maimes.	Bronx, N. Y.

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Maloney	P. F. Maloney	New York City
Maltbie	The Maltbie Chemical Co.	Newark, N. J.
Manhatbot	Manhattan Bottling Co.	Brooklyn, N. Y.
Manhatref	Manhattan Refreshment Co.	New York City
Marcy	The Marcy Co.	Boston, Mass.
Marinello	Marinello Co., Inc.	New York City
Marks	L. Marks	New York City
Martinrbr	Martin Rubber Co.	Long Island, N. Y.
Marybako	Maryland Baking Co.	Baltimore, Md.
Marybisc	Maryland Biscuit Co.	Baltimore, Md.
Marypharm	Maryland Pharmaceutical Co.	Baltimore, Md.
Malincoln	Mary Lincoln Candy Co., Inc.	Buffalo, N. Y.
Masschoco	Massachusetts Chocolate Co.	Roxbury, Mass.
Masterchem	Master Chemical Co.	Columbia, S. C.
Mathes	W. E. Mathes Vinegar Co.	Albion, N. Y.
Mathieson	Mathieson Alkali Works	New York City
Mauss	Mauss Extract Works, Inc.	Milford, Conn.
Mavisbot	Mavis Bottling Co. of Amer.	New York City
Magulan	Mawer-Gulden-Annis, Inc.	Brooklyn, N. Y.
Mayfair	Mayfair Margarin Co.	Providence, R. I.
Mayflower	Mayflower Beverage Co.	Long Island, N. Y.
Maywood	Maywood Chemical Co.	Maywood, N. J.
Mazurkewich	Steve Mazurkewich	Worcester, Mass.
Mecke	Mecke Co.	New York City
Meister	A. J. Meister & Co.	Lawrence, Mass.
Mendell	J. Mendell Candy Co.	Brooklyn, N. Y.
Mennen	The Mennen Co.	Newark, N. J.
Merabroad	Merchandising Abroad	New York City
Merck	Merck & Co.	New York City
Merckway	" " "	Rahway, N. J.
Merklouis	" " "	St. Louis, Mo.
Mercy	Mercy Hospital	Pittsburgh, Pa.
Merrimac	Merrimac Chemical Co.	Boston, Mass.
Meriandy	" " "	Anderson, Mass.
Metcalf	Theodore Metcalf Co.	Boston, Mass.
Metrobot	Metropolitan Bottling Co.	New York City
Metrochoco	Metro Choc. Co.	Brooklyn, N. Y.
Metz	H. A. Metz Lab. Inc.	Brooklyn, N. Y.
Meyerbros	J. H. Meyer Bros. Co.	Brooklyn, N. Y.
Michalk	Michigan Alkali Co.	New York City
Milnerbot	Milner Bottling Works	Millerton, N. Y.
Minck	Minck Bros.	Brooklyn, N. Y.
Minox	Minox Chemical Corp.	New York City
Mjsco	M J S Company	New York City
Mandm	M & M Products Co.	Baltimore, Md.
Modbowo	Modern Bottling Works	New York City
Modernfood	Modern Food Co.	New York City
Monarchx	Monarch Exterminating Co.	New York City
Monmouth	Monmouth Chemical Corp.	New York City

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Monticello	Monticello Upholstering Co.	Monticello, N. Y.
Montrose	Montrose Manufacturing Co.	Pittsburgh, Pa.
Moorprods	A. P. Moore Products Co.	Clarksburg, W. Va.
Moorlaco	L. A. Moore & Co.	Utica, N. Y.
Mooranco	Moore & Co.	Worcester, Mass.
Morana	Morana, Inc.	New York City
Morgenstern	Morgenstern & Co.	Brooklyn, N. Y.
Morgowsky	Samuel Morgowsky	New York City
Morkby	Harry S. Mork	South Boston, Mass.
Morissey	Thos. E. Morrissey	Brooklyn, N. Y.
Mortract	Morrow Extract Corp.	New York City
Morseaj	A. J. Morse	Albany, N. Y.
Mosier	Moshier Bros.	Ashland, Mass.
Moss	The Moss Company	Rochester, N. Y.
Moyerlabs	William Groff Moyer Labs.	Mechanicsburg, Pa.
Mulford	H. K. Mulford Co.	Philadelphia, Pa.
Mullennax	A. J. Mullennax	Cambridge, Md.
Mullerga	George W. Muller c/o Roach	Reistertown, Md.
Mulean	Muller, MacLean & Co., Inc.	New York City
Murphyvar	Murphy Varnish Co.	Newark, N. J.
Muth	Muth Bros.	Baltimore, Md.
Muboco	Mutual Bottling Co.	Brooklyn, N. Y.
Mupharm	Mutual Pharmacal Co.	Syracuse, N. Y.
Myersji	John I. Myers Co.	Meadville, Pa.
Myersmh	M. H. Myers	New York City

Natademy	**The National Adhesive Corp.**	**New York City**
Natadec	" " "	Cleveland, Ohio
Natachi	" " "	Chicago, Ill.
Natafrisco	" " "	San Francisco, Calif.
Natanco	National Aniline & Chemical Co., Inc.	New York City
Natanbuf	National Aniline & Chemical Co., Inc.	Buffalo, N. Y.
Nabisco	National Biscuit Co.	Chicago, Ill.
Nabisbuf	" " "	Buffalo, N. Y.
Nabiscony	" " "	New York City
Natlbot	National Bottling Co.	Worcester, Mass.
Natlbotor	National Bottling Torah Co., Inc.	Cambridge, Mass.
Natldairy	National Dairy Prod. Corp.	Long Island, N. Y.
Natruco	The National Drug Co.	Philadelphia, Pa.
Natledlab	National Lead Co. Research Labs.	New York City
Natlpepsi	National Pepsi Cola Corp.	Richmond, Va.

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Natlsilk	National Silk Dyeing Co.....	Paterson, N. J.
Neidhardt	George Neidhardt.....	Yonkers, N. Y.
Neuselfo	Neusel Food Products Co....	New York City
Newarkbeth	Newark Beth Israel Hospital.	Newark, N. J.
Nuengblk	New England Blacking Co., Inc.....	Boston, Mass.
Necoltuco	New England Collapsible Tube Co.....	New London, Conn.
Nuenren	New England Rendering Co..	Brighton, Mass.
Nujerzinc	The New Jersey Zinc Co.....	New York City
Newrochbev	New Rochelle Beverage Co...	New Rochelle, N. Y.
Nybswater	New York & Brooklyn Soda Water.....	Brooklyn, N. Y.
Nycabak	New York Cake Baking Co...	New York City
Nyconf	New York Confection Co....	New York City
Nyqubrook	New York Quinine & Chemical Works.....	Brooklyn, N. Y.
Nyqulouis	New York Quinine & Chemical Works.....	St. Louis, Mo.
Niacet	Niacet Chemical Corp.....	Niagara Falls, N. Y.
Noil	Noil Chemical & Color Wks..	New York City
Normandie	Normandie Corp.....	Norfolk, Va.
Norhwarn	Northam-Warren Corp.....	New York City
Norwich	Norwich Pharmacal Co.....	Norwich, N. Y.
Novia	Novia Candy Co., Inc.....	Brooklyn, N. Y.

Oleumco	**Oleum Products Co.....**	**Scranton, Pa.**
Olinville	Olinville Bottling Co.....	Bronx, N. Y.
Omega	Omega Chemical Co.....	New York City
Onondaga	Onondaga Soda Water.....	Syracuse, N. Y.
Orangeine	Orangeine Chemical Co.....	LeRoy, N. Y.
Oranola	Orange Ola Bottling Co.....	New York City
Orbis	Orbis Prod. Trad. Co., Inc...	New York City
Oriental	Oriental Bottling Co.....	Brooklyn, N. Y.
Oriental	Oriental Soda Water Co.....	New York City
Orvermex	Oriental Vermin Ext. Co.....	New York City
Ormont	Ormont Drug & Chem. Co...	Long Island, N. Y.
Ottens	Henry H. Ottens Mfg. Co...	Philadelphia, Pa.

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Paff	**Paff Disinfectant Co.**	**Sharon, Pa.**
Palaconf	Palace Confectionery Co.	Philadelphia, Pa.
Palatine	Palatine Aniline & Chem. Co.	Poughkeepsie, N. Y.
Panambot	Pan American Bottling Co.	New York City
Pardenis	Parfumerie St. Denis	New York City
Parkford	Park & Tilford	New York City
Parkdrug	Park Drug Co.	New York City
Parkerdrug	Parker Drug Co.	Baltimore, Md.
Pascolor	Passaic Color Corp.	Passaic, N. J.
Patch	E. L. Patch Co.	Boston, Mass.
Patirmov	Patty Remover Co.	Brooklyn, N. Y.
Payns	B. Payns Sons Tobacco Co.	Albany, N. Y.
Peerolef	Peerless Roll Leaf Co., Inc.	Union City, N. J.
Peloso	Peloso Bros.	New York City
Pentobac	Penn. Tobacco Co.	Wilkesbarre, Pa.
Pennext	Pennsylvania Mfrs. Ext. Co.	Pittsburgh, Pa.
Pennry	Pennsylvania Railroad Co.	Philadelphia, Pa.
Pensalt	Pennsylvania Salt Mfg. Co.	Philadelphia, Pa.
Pepinc	Pep Manufacturing Co., Inc.	New York City
Perkinsbx	Perkins Box Co.	Gloucester, Mass.
Peterkoful	Pater Cailler Kohler Swiss Chocolate Co.	Fulton, N. Y.
Peterkohl	Peter Cailler Kohler Swiss Chocolate Co.	New York City
Pettylab	Petty's Laboratory	Newark, N. J.
Platzbauer	Pfaltz & Bauer	New York City
Pfister	J. F. Pfister Co.	Buffalo, N. Y.
Pfizer	Chas. Pfizer & Co., Inc.	New York City
Pharmakem	Pharma Chemical Corp.	New York City
Phairmount	Phairmount Laboratories	Hackensack, N. J.
Pharmprod	The Pharmacal Products Co., Inc.	Easton, Md.
Philapsule	Philadelphia Capsule Co.	Philadelphia, Pa.
Phillipset	E. T. Phillips	Wolcott, N. Y.
Phillipi	Phillipi Bottling Works	New York City
Phinotas	Phinotas Chemical Co.	New York City
Pinkham	Lydia E. Pinkham Med. Co.	Lynn, Mass.
Pittsons	The C. M. Pitt & Sons Co.	Baltimore, Md.
Pittsfods	Pittsburgh Food Product Co.	Pittsburgh, Pa.
Pittsimp	Pittsburgh Imptg. & Mfg. Co.	Pittsburgh, Pa.
Pittsglass	Pittsburgh Plate Glass Co.	Pittsburgh, Pa.
Pittscrys	" " " "	Crystal City, Mo.
Pittsmil	" " " "	Milwaukee, Wisc.
Pittsnej	" " " "	Newark, N. J.
Portage	Portage Whistle Bottling Co.	Portage, Pa.
Pouvail	Pouvailsmith Corp.	Poughkeepsie, N. Y.
Pratlamb	Pratt & Lambert, Inc.	Buffalo, N. Y.
Prembot	Premier Bottling Works	New York City
Premchem	Premier Chemical Co.	Brooklyn, N. Y.
Priceving	Vernon D. Price Vinegar Co., Inc., N. S.	Pittsburgh, Pa.
Punckett	James E. Punckett	Buffalo, N. Y.

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Quakermaid	**The Quaker Maid Co.**	**Brooklyn, N. Y.**
Qualsaco	Quality Sales Company	Pittsburgh, Pa.
Qualserpro	The Quality Service Prod'cts.	Malden, Mass.

Ratln	**Ratln Laboratories**	**New York City**
Rawlsdick	Rawls-Dickson Candy Co.	Winston-Salem, N. C.
Ratner	Max Ratner	Brooklyn, N. Y.
Raymer	Raymer Pharmacal Co.	Philadelphia, Pa.
Reenick	Reed & Carnick	Jersey City, N. J.
Reinchild	Reinchild Chemical Co.	New York City
Relispec	Reliable Specialty Corp.	Buffalo, N. Y.
Renault	L. N. Renault & Sons, Inc.	Egg Harbor City, N. J.
Repporch	Repp Orchard Products	Glassboro, N. J.
Resinous	Resinous Products & Chemical Co., Inc.	Philadelphia, Pa.
Reymer	Reymer & Brothers, Inc.	Pittsburgh, Pa.
Reynolds	R. J. Reynolds Tobacco Co.	Winston-Salem, N. C.
Ricechem	Rice Chemical Co.	Greensboro, N. C.
Richard Co.	Richards & Co., Inc.	Wilmington, Dela.
Ridley	Ridley's	Long Island, N. Y.
Richcorp	Richardson Corp.	Rochester, N. Y.
Richco	F. E. Richardson & Co., Inc.	New York City
Robertsco	F. H. Roberts Co.	Boston, Mass.
Robroders	The Robinson Roders Co.	Newark, N. J.
Rochcone	Rochester Cone Co.	Rochester, N. Y.
Rochicide	Rochester Germicide Co.	Rochester, N. Y.
Rochso	Rochester Soda Water Co.	Rochester, N. Y.
Rochbot	Rochester Sweet Valley Bottling Co.	Rochester, N. Y.
Rochvan	Rochester Vanilla Co., Inc.	Rochester, N. Y.
Rockwaex	Rockaway Exterm. Co.	Rockaway Beach, N. Y.
Roessler	Roessler & Hasslacher Chemical Co.	New York City
Roessney	" " "	Perth Amboy, N. J.
Rohmaas	Rohm & Haas Co., Inc.	Philadelphia, Pa.
Romanetna	Roman Aetna Blacking Co.	Brooklyn, N. Y.
Rosedor	The Rosedor Cigarette Co.	Brooklyn, N. Y.
Rosraex	Rose Rat Exterminator Co.	Philadelphia, Pa.
Rosenstein	Samuel Rosenstein	Brooklyn, N. Y.
Rosenthal	H. H. Rosenthal Co.	New York City
Rottman	Toney Rottman	Wilmington, Dela.
Roxalin	Roxalin Flexible Lacquer Co., Inc.	Long Island, N. Y.
Royalduq	Royal Mfg. Co. of Duquesne.	Duquesne, Pa.
Royalprods	Royal Products Co.	Baltimore, Md.
Runkel	Runkel Brothers, Inc.	New York City

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Russelmfg	The Russell Mfg. Co.	Middletown, Conn.
Rusement	Russia Cement Co.	Gloucester, Mass.
Ruxton	Phillip Ruxton, Inc.	New York City
Ryanidl	Ryan Ideal Stain & Blacking Co.	Lynn, Mass.
Ryan	H. Ryan	Cold Spring, N. Y.
Ryland	H. C. Ryland	New York City

Sagere	R. E. Sage Co., Inc.	Boston, Mass.
Smarks	St. Marks Bottling Works	Brooklyn, N. Y.
Sanbot	Sanitary Bottling Co.	Brooklyn, N. Y.
Sauer	C. F. Sauer Co.	Richmond, Va.
Sausville	Joseph Sausville & Sons.	New York City
Sawyer	Sawyer Biscuit Co.	New York City
Scales	Scales Wilson Co.	Greenville, S. C.
Schenhygien	Schenectady Hygienic Laboratory, Inc.	Schenectady, N. Y.
Scherglatz	Schering & Glatz, Inc.	Bloomfield, N. J.
Schieffelin	Schieffelin Co.	New York City
Schmidt	Carl E. Schmidt & Sons, Inc.	Philadelphia, Pa.
Schrafft	W. F. Schrafft & Sons Corp.	Boston, Mass.
Schwartz	H. C. Schwartz	Baltimore, Md.
Scottom	Thomas Scott & Co., Inc.	New York City
Scoville	Scoville Mfg. Co.	Waterbury, Conn.
Scranton	Scranton Baker Supply Co.	Scranton, Pa.
Seacoast	Seacoast Laboratories	Sea Bright, N. J.
Seagate	Sea Gate Bottling Co.	Brooklyn, N. Y.
Seeman	The Seeman Brothers	New York City
Seilputt	Seil, Putt & Rusby, Inc.	New York City
Shank	Jacob H. Shank	Elizabethtown, Pa.
Sharples	Sharples Solvents Co.	Philadelphia, Pa.
Shardohm	Sharp & Dohme, Inc.	Baltimore, Md.
Shepardson	Shepardson Extract Co.	Springfield, Mass.
Sherlow	Sherlow Chemical Co.	New York City
Shima	Shima Trading Co., Ltd.	New York City
Shipleyham	Shipley Massingham Co.	Pittsburgh, Pa.
Shoemaker	Shoemaker & Busch, Inc.	Philadelphia, Pa.
Siegle	G. Siegle Corp. of America.	Staten Island, N. Y.
Simonsinc	Harold L. Simons, Inc.	Long Island, N. Y.
Sinclair	Sinclair & Valentine	New York City
Skinsher	Skinner Sherman & Esselen, Inc.	Boston, Mass.
Slade	Charles F. Slade Co., Inc.	Buffalo, N. Y.
Sloangrave	Sloan, Graves & Smelzer	New York City
Smithbros	Smith Brothers, Inc.	Poughkeepsie, N. Y.
Smithphar	C. D. Smith Pharmacal Co.	New York City

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Smitherns	Smith Ernster Co.	New York City
Smithjun	Smith Junior Company	Rochester, N. Y.
Smitkline	Smith Kline & French, Inc.	Philadelphia, Pa.
Solwanan	Solway Annan Company	Washington, D. C.
Sonard	Sonard Products Mfg. Co., Inc.	Washington, D. C.
Sorrento	Sorrento Bottling Company	Brooklyn, N. Y.
Soubisc	Southern Biscuit Company	Richmond, Va.
Soucotoil	Southern Cotton Oil Co.	Columbia, S. C.
Soudairy	Southern Dairies, Inc.	Washington, D. C.
Sparhawk	Chas. V. Sparhawk	Newark, N. J.
Spencer	The Spencer Drug Co.	Norwich, N. Y.
Squibb	E. R. Squibb & Sons	Brooklyn, N. Y.
Sands	S & S Exterminating Co.	Brooklyn, N. Y.
Stackcaru	Stack & Carew Co.	South Boston, Mass.
Stacy	O. T. Stacy Co.	Rochester, N. Y.
Stanback	Stanback Medicine Co.	Spencer, N. C.
Standequip	Standard Equipment Co., Inc.	Newark, N. J.
Standoil	Standard Oil Development Co. Research Laboratories	Bayway Refinery, Elizabeth, N. J.
Standia	Standard Oil Co. of Calif.	San Francisco, Calif.
Standichi	Standard Oil Co. of Indiana	Chicago, Ill.
Standinej	Standard Oil Co. of N. J.	New York City
Standpharm	Standard Pharm. Corp.	Baltimore, Md.
Standvar	Standard Varnish Co.	New York City
Stanley	John T. Stanley Soap Co., Inc.	New York City
Starbot	Star Bottlers Supply Co.	New York City
Starbotwks	Star Bottling Works	Rome, N. Y.
Starext	Star Extract Works, Inc.	New York City
Starkweather	Starkweather & Sheapley	New York City
Stashis	Roman Stashis	Cambridge, Mass.
Stechert	G. E. Stechert & Co.	New York City
Steenrod	Steenrod Bottling Works & Cider Mill	Wellsville, N. Y.
Stefan	John C. Stefan	Nanuet, N. Y.
Stephano	Stephano Brothers	New York City
Sterlingco	Sterling Products Co.	Easton, Pa.
Sterling	Sterling Products, Inc.	Wheeling, W. Va.
Stetson	Stetson Shoe Company, Inc.	S. Weymouth, Mass.
Stevenot	Charles J. Stevenot & Co.	New York City
Steward	Jesse Stewart Co.	Pittsburgh, Pa.
Stewartco	Stewart Products Co.	Williamsport, Pa.
Stifel	J. L. Stifel & Sons	Wheeling, W. Va.
Stilwell	Arthur A. Stilwell & Co.	New York City
Stocking	Kenneth A. Stocking	Rochester, N. Y.
Stoddard	G. S. Stoddard & Co., Inc.	New York City
Stohl	A. F. Stohl	Erie, Pa.
Stokesmith	Stokes & Smith Co.	Philadelphia, Pa.
Strasser	Bernard G. Strasser	Buffalo, N. Y.

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Strasenburgh	R. J. Strasenburgh Co.	Rochester, N. Y.
Strong	F. H. Strong Co.	New York City
Stuart	C. H. Stuart & Co.	Newark, N. J.
Studebaker	L. H. Studebaker	Erie, Pa.
Success	Success Bottling Works	Brooklyn, N. Y.
Sunlight	Sunlight Chemical Corp.	Phillipsdale, R. I.
Summicy	The Summit Pharmacy	Brooklyn, N. Y.
Sunoil	Sun Oil Company	Philadelphia, Pa.
Suncrest	Suncrest Flavor Co., Inc.	New York City
Sunray	Sun Ray Bottling Co.	Brooklyn, N. Y.
Superfla	Super Flavor & Ext. Co., Inc.	New York City
Sutton	R. L. Sutton	Endicott, N. Y.
Swartley	S. H. Swartley	Doylestown, Pa.
Sweets	Sweets Co. of America	New York City
Swiftco	Swift & Co.	Jersey City, N. J.

Tailbyson	**Tailby Nason Company**	**Cambridge, Mass.**
Tanite	Tanite Company	Stroundsberg, Pa.
Tannin	The Tannin Corp.	New York City
Tannwil	The Tannin Corp. c/o Marine Terminal	Wilmington, Dela.
Taylor	Wm. I. Taylor	New Paris, Pa.
Taylorbros	Taylor Brothers, Inc.	Winston-Salem, N. C.
Taylong	Taylor-Long Co., Inc.	Winston-Salem, N. C.
Theall	Theall & Pile, Inc.	New York City
Triomiller	The Three Millers Corp.	Boston, Mass.
Tildenleb	The Tilden Co.	New Lebanon, N. Y.
Tildenco	" " "	St. Louis
Tice	W. C. Tice	Winston-Salem, N. C.
Tndrug	T. N. Drug Co.	Stamford, Conn.
Towerchem	The Tower Chemical Co.	Reading, Pa.
Towjames	Towns & James	Brooklyn, N. Y.
Trager	Trager Mfg. Co.	Scranton, Pa.
Trexlerhy	Trexler-Henry Co.	Allentown, Pa.
Triumph	Triumph Mfg. Co.	New York City
Tropical	Tropical Extract Co.	Albany, N. Y.
Trulax	Tru Lax Products Co.	Newark, N. J.
Tryalax	Try A Lax Mfg. Co., Inc.	Philadelphia, Pa.
Tucker	Tucker Mfg. Co.	New York City
Tumarkin	A. Tumarkin	Ruxbury, Mass.
Tumbler	J. A. Tumbler Laboratories	Baltimore, Md.
Tyler	Tyler Chemical Co.	Pawtucket, R. I.

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Uhlich	**Paul Uhlich & Co.**	**New York City**
Uschemco	Uncle Sam Chemical Co.	New York City
Ungerer	Ungerer & Co.	New York City
Uniston	United Drug Co.	Boston, Mass.
Unilouis	" " "	St. Louis, Mo.
Unidrug	" " "	New York City
Updywo	United Piece Dye Works	Lodi, N. J.
Updypat	" " " "	Paterson, N. J.
Usnaval	U. S. Naval Med. Sup. Depot.	New York City
Usoldier	Officer of the Quartermaster, U. S. Soldiers Home	Washington, D. C.
Ustreasury	U. S. Treasury Dept.	Washington, D. C.
Usindchem	U. S. Industrial Alcohol Co.	New York City
Ustobac	U. S. Tobacco Co.	New York City
Uhoward	Howard University	Washington, D. C.

Vadsco	**Vadsco Sales Corp.**	**New York City**
Vanamergen	A. L. Van Amerigen Haebler, Inc.	New York City
Vandyk	VanDyk & Co.	New York City
Vandykchem	Van Dyke Chemical Co.	Philadelphia, Pa.
Vanilabs	Vanilla Laboratories, Inc.	Rochester, N. Y.
Vantine	A. A. Vantine & Co.	New York City
Vegco	The Vegco Products, Inc.	Warsaw, N. Y.
Vellner	Eugene Vellner	Philadelphia, Pa.
Verona	Verona Chemical Co.	Newark, N. J.
Victor	Victor Mfg. Co.	Greensburg, Pa.
Vivaudou	V. Vivaudou, Inc.	New York City
Victory	Victory Chemical Co.	Philadelphia, Pa.
Vivo	Vivo Medical Co.	New York City
Vafertiliz	Virginia Fertilizer Corp.	Norfolk, Va.
Virginare	Virginia Dare Extract Co.	Brooklyn, N. Y.

Wadex	**Wade Extract Co.**	**Orange, N. J.**
Walcorp	Walker Corporation & Co., Inc.	Syracuse, N. Y.
Walker	W. H. Walker, Inc.	Pittsburgh, Pa.
Wallace	Wallace Flavor House, Inc.	New York City

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Wallerstein	Wallerstein Co., Inc.	New York City
Walpole	Walpole Bottling Co.	Walpole, Mass.
Walterboro	Walterboro Orange-Crush Bottling Co.	Walterboro, S. C.
Wampole	Henry K. Wampole & Co.	Philadelphia, Pa.
Wangler	Wangler Budd Co.	New York City
Wardking	Ward Baking Co.	New York City
Baltimore	" " "	Baltimore, Md.
Birmingham	" " "	Birmingham, Ala.
Brooklyn	" " "	Brooklyn, N. Y.
Cambridge	" " "	Cambridge, Mass.
Chicaglex	" " "	Chicago, Ill. (2608 Lexington Ave.)
Chicaglas	" " "	Chicago, Ill. (5659 LaSalle St.)
Chicagrae	" " "	Chicago, Ill. (114 S. Racine Ave.)
Cleveland	" " "	Cleveland, Ohio
Columbus	" " "	Columbus, Ohio
Detroit	" " "	Detroit, Mich.
Jacksonville	" " "	Jacksonville, Fla.
Newark	" " "	Newark, N. J.
Philadelphia	" " "	Philadelphia, Pa.
Pittslib	" " "	Pittsburgh, Pa. (3100 Liberty Ave.)
Pittsches	" " "	Pittsburgh, Pa. (6415 Chester Ave.)
Providence	" " "	Providence, R. I.
St. Louis	" " "	St. Louis, Mo.
Southbend	" " "	South Bend, Ind.
Syracuse	" " "	Syracuse, N. Y.
Youngstown	" " "	Youngstown, Ohio
Warble	Warble Brothers	Hudson. N. Y.
Waresco	The Wares Company	Warsaw, N. Y.
Warner	William R. Warner & Co., Inc.	New York City
Warnermo	William R. Warner & Co., Inc.	St. Louis, Mo.
Warns	R. H. Warns, Inc.	Jamaica, Long Island, N. Y.
Warrbot	Warren Bottling Co., Inc.	Brooklyn, N. Y.
Weaverson	Weaver & Son	Elizabethville, Pa.
Wechsler	H. Wechsler	New York City
Weeksco	Weeks Extract Co., Inc.	Syracuse, N. Y.
Weirton	Weirton Bottling Company	Weirton, W. Va.
Westdis	West Disinfectant Co.	New York City
Westmfg	West Mfg. Co.	Camden, N. J.
Webrewco	The West End Brewing Co.	Utica, N. Y.
Westinghouse	Westinghouse Electric & Mfg. Co.	E. Pittsburgh, Pa.
Wealenco	R. Wealen & Co.	Rochester, N. Y.
Wheelerich	Wheeler & Rich Bottling Works	Avon, N. Y.

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Whiteltd	A. J. White, Ltd.	New York City
Whitmanco	E. G. Whitman & Co.	Philadelphia, Pa.
Whitson	Stephen F. Whitman & Son, Inc.	Philadelphia, Pa.
Wiarda	J. C. Wiarda & Co.	Brooklyn, N. Y.
Wiardhall	Wiarda & Hall Acid Works, Inc.	Brooklyn, N. Y.
Widmers	Widmers Grape Products Industries	Naples, N. Y.
Wilhelma	A. Wilhelm Company	Reading, Pa.
Wilkesmaid	Wilkes-Barre Maid Candy Co.	Pittston, Pa.
Williamef	E. F. Williams	Wellsville, N. Y.
Williamsco	The J. B. Williams Co.	Glastonbury, Conn.
Willarcy	R. C. Williams & Co.	New York City
Williamine	W. R. Williams, Inc.	Montclair, N. J.
Williamsburgh	Williamsburgh Products Co.	Brooklyn, N. Y.
Willisbros	Willis Brothers	Jersey City, N. J.
Windsbot	Windsor Bottling Co.	Brooklyn, N. Y.
Winkbev	Wink Beverage Co., Inc.	Brooklyn, N. Y.
Winslink	Winslow Ink Corp.	New York City
Winterbro	Winter Brothers Co.	Buffalo, N. Y.
Wishnick	Wishnick-Tumpeer, Inc.	Brooklyn, N. Y.
Witkophom	Witkop & Holmes Co.	Buffalo, N. Y.
Wojiechowski	Alex Wojiechowski	Norwich, Conn.
Wolfthomen	Wolf & Thomen, Inc.	Ossining, N. Y.
Woodsmince	Woods Mince Meat Co.	Baltimore, Md.
Woodlick	Wood & Selick Co.	New York City
Worstersod	Worcester Soda Company	Worcester, Mass.
Work	Lincoln T. Work	New York City
Wyeth	John Wyeth & Brother, Inc.	Philadelphia, Pa.

Yates	**Yates Drug & Chem. Co.**	**New York City**
Yerkes	Yerkes Chemical Co., Inc.	Winston-Salem, N. C
Youngman	Youngman & Co.	New York City

Zago	**Zago Brothers**	**New York City**
Zeller	Zeller Lacquer Mfg. Co.	New York City
Zemmer	The Zemmer Co.	Pittsburgh, Pa.
Zempliner	W. W. Zempliner Co.	New York City
Zinsser	Zinsser & Co.	Hastings-on-Hudson, N. Y.
Zonite	Zonite Products Corp.	New York City.

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1005	**acme**	**Acme Chemical Co., Milwaukee.**
1015	algonite	Algonite Stone Mfg. Co., St. Louis.
1023	altbar	Alton Barium Prod. Co., Alton, Ill.
1024	altbox	Alton Box Board & Paper Co., Alton.
1025	alumsl	**Aluminum Ore Co., East. St. Louis.**
1026	aluminum	Aluminum Ore Co., Pittsburgh, Pa.
1037	amdisco	American Distilling Co., Pekin, Ill.
1048	amther	American Thermometer Co., St. Louis.
1050	amzinc	American Zinc Co. of Ill., St. Louis.
1056	anheuser	Anheuser Busch, Inc., St. Louis, Mo.
1067	armour	Armour & Co., National Stock Yards, Ill.
1074	atlas	Atlas Tack Corp., St. Louis, Mo.

2001	**bachmann**	**Bachmann Chocolate Co., Mt. Joy, Pa.**
2005	baklass	Baker Bros. Glass Co., Okmulgee.
2007	bakuk	S. F. Baker & Co., Keokuk, Ia.
2015	bano	Baltimore & Ohio R. R., Baltimore.
2016	barada	Barada & Page, Inc., Kansas City, Mo.
2017	barber	Barber Asphalt Co., Madison, Ill.
2018	barmed	Barber Medicine Co., Kansas City, Mo.
2019	barlow	Joe Barlow, Distributor, Dallas, Texas.
2020	barcros	**Barnes Crosby Co., St. Louis, Mo.**
2021	barnickel	Wm. S. Barnickel & Co., Webster Groves, Mo.
2023	barton	Barton Mfg. Co., St. Louis, Mo.
2034	beckbitt	Beck & Corbitt Iron Co., St. Louis.
2046	benson	Benson Creamery Co., Decatur, Ill.
2049	bessire	Bessire & Co., Indianapolis, Ind.
2053	bindley	E. H. Bindley & Co., Terre Haute. Ind.
2060	blackford	Blackford Window Glass Co., Vincennes.
2079	boyer	Boyer Chem. Lab., Chicago, Ill.
2086	brecht	The Brecht Co., St. Louis, Mo.
2090	bridge	Bridge & Beach Mfg. Co., St. Louis, Mo.
2100	brownall	Brown & Hall Supply Co., St. Louis.
2102	brownson	Brown & Williamson Tobacco Co., Winston-Salem, N. C.
2121	bush	B. T. Bush & Co., New York, N. Y.

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3016	**carlyle**	**Carlyle Paper Co., Alton, Ill.**
3018	carrier	Carrier Stephens Co., Lansing, Mich.
3020		Cash Sales
3026	cenol	Central City Chemical Co., Chicago, Ill.
3036	chambers	Chambers Bering & Quinlan, Decatur, Ill.
3050	chevrolet	Chevrolet Motor Co., St. Louis, Mo.
3052	burlington	Chicago, Burlington & Quincy R. R. Co., Chicago, Ill.
3062	churchill	Churchill Drug Co., Burlington, Ia.
3067	cinchem	Cincinnati Chemical Works, Cincinnati.
3087	cocola	Coca-Cola Company, Atlanta, Ga.
3099	comchem	Commercial Chem. Co. of Tenn., Memphis, Tenn.
3102	comsol	Commercial Solvents Corp., Terre Haute, Ind.
3102	comsolpeo	Commercial Solvents Corp., Peoria, Ill.
3107	compton	Compton & Sons Litho. & Printing Co., St. Louis, Mo.
3133	crunden	Crunden Martin Mfg. Co., St. Louis.
3136	cupples	The Cupples Co., St. Louis, Mo.
3142	coproco	Corn Products Refining Co., Chicago.
3151	cocoaprod	Cocoa Products Co., Norfolk, Va.
23048	cutter	George Cutter Co., South Bend, Ind.

4003	**dairlab**	**Dairy Laboratories, St. Louis, Mo.**
4017	decabat	Decatur Battery Service Co., Decatur.
4018	decasup	Decatur Washington Auto Supply Co., Decatur, Ill.
4047	dow	Dow Chemical Co., Midland, Mich.
4055	dupont	E. I. Du Pont de Nemours & Co., Wilmington, Del.
4061	dittlinger	H. Dittlinger Roller Mills Co., New Braunfels, Texas.

5000	**eagle**	**Eagle Chemical Co., Milwaukee.**
5001	eapicher	Eagle Picher Lead Co., Hillsboro, Ill.
5005	eastorp	Eastern Torpedo of Ohio Co., Toledo.
5006	eastkodak	Eastman Kodak Co., Rochester, N. Y.
5007	eastsub	East St. Louis & Suburban Rwy. Co., East St. Louis, Ill.
5031		Employes—Sales to

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6008	**farles**	**Farles Mfg. Co., Decatur, Ill.**
6036	ford	Ford Motor Co., Detroit, Mich.
6049	frankbat	Franks Battery Service Co., East St. Louis, Ill.
6065	forwapco	Fort Wayne Corrugated Paper Co., Fort Wayne, Ind.
6071	frazier	Frazier Davis Construc. Co., St. Louis.
6072	frenlick	French Lick Springs Hotel, French Lick, Ind.
7009	**gatesbat**	**Gates Battery Co., East St. Louis.**
7013	general	General Chemical Co., New York.
7031	glanstrong	Glan & Armstrong Co., Decatur, Ill.
5024	godley	Ellsworth Godley, Springfield, Ill.
7040	gordon	Geo. C. Gordon Chemical Co., Kansas City, Mo.
7045	graglass	Graham Glass Co., Evansville, Ind.
7049	grasselli	Grasselli Chemical Co., Cleveland.
7074	goldust	Gold Dust Corp., St. Louis, Mo.
8003	**hager**	**C. Hager & Sons Hinge Mfg. Co., St. Louis, Mo.**
8040	heller	B. Heller & Co., Chicago.
8055	highhill	V. L. Highland & R. A. Hill, Receivers, Interstate Window Glass Co., Kane, Pa.
8065	hookmical	Hooker Electrochemical Co., New York.
8077	hubinger	J. C. Hubinger Bros. Co., Keokuk, Ia.
8091	custer	Hayes Custer Stove & Furnace Co., Bloomington, Ill.
8092	highland	Highland Brewing Co., Highland, Ill.

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8055	**inwinco**	**Interstate Window Glass Co., Okmulgee, Okla.**
9002	illassco	Illinois Glass Co., Alton, Ill.
9003	illwaco	Illinois Watch Co., Springfield, Ill.
9008	inbofico	Indiana Board & Filler Co., Vincennes.
9010	inbleco	Indianapolis Bleaching Co., Indianapolis, Ind.
9012	intico	Indiana Tie Co., Evansville, Ind.
9013	inchemlab	Industrial Chemical Lab., Inc., Omaha.
9021	inpaco	International Paint Corp., E. St. Louis.
9031	intorpco	The Independent Torpedo Co., Findlay, Ohio.
9032	intpaco	International Paper Co., New York.

10028	**joycekins**	**Joyce Watkins Co., Chicago, Ill.**
10030	johnsfer	Johnson Bros. Transfer Co., Belleville.

11012	**kencoco**	**Kentucky Color & Chemical Co., Louisville, Ky.**
11017	kettle	Kettle River Treating Co., Madison, Ill.
11020	keystone	Keystone Steel & Wire Co., Peoria, Ill.

12000	**laclede**	**Laclede Steel Co., St. Louis, Mo.**
12023	leich	Chas. Leich & Co., Evansville, Ind.
12037	liggett	Liggett & Myers Tobacco Co., St. Louis.
12037	liggetny	Liggett & Myers Tobacco Co., New York, N. Y.
12038	lightning	The Lightning Co., St. Paul, Minn.
12043	lionoil	Lion Oil & Refining Co., El Dorado, Ark.
12058	loosminn	Loose-Wiles Biscuit Co., Minneapolis

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TERRITORY SL—Continued

12061	loriaux	Loriaux Glass Co., Fredonia, Kans.
12062	lorrilard	P. Lorillard Co., New York, N. Y.
12062	lorilltown	P. Lorillard Co., Middletown, Ohio.
12063	loureco	Louisiana Oil & Refining Co., Shreveport, La.
12064	louchem	Louisville Chemical Works, Louisville.
12074	ludlow	Ludlow-Saylor Wire Co., St. Louis.
12082	lewisco	F. J. Lewis Mfg. Co., Chicago, Ill.

13015	**maas**	**Albert G. Maas, Indianapolis.**
13022	mallinckrodt	Mallinckrodt Chem. Works., St. Louis.
13022	mallchemwo	Mallinckrodt Chem. Works, New York.
13060	methudy	Methudy Enamel Range Co., E. St. Louis, Ill.
13064	meyblanke	Meyer Blanke Co., St. Louis, Mo.
13066	meybros	Meyer Bros. Drug Co., St. Louis.
13077	misglas	Mississippi Glass Co., St. Louis, Mo.
13080	missgluco	Missouri Glue Co., St. Louis, Mo.
13081	mopac	Missouri Pacific R. R. Co., St. Louis.
13095	moorman	Moorman Mfg. Co., Quincy, Ill.
13102	morrchemco	Morris Chemical Co., St. Louis, Mo.
13111	mountraw	Mt. Vernon Straw Board Co., Mt. Vernon, Ind.
13114	multiplex	Multiplex Faucet Co., St. Louis, Mo.
13126	magnolia	Magnolia Window Glass Co., Fort Smith, Ark.
13134	manbisco	Manchester Biscuit Co., Sioux Falls, S. D.

14009	**nescogran**	**National Enameling & Stamping Co., Granite City, Ill.**
14009	nescoslou	National Enameling & Stamping Co., St. Louis, Mo.
14009	nesco	National Enameling & Stamping Co., Milwaukee, Wis.
14013	nalucreco	National Lr. & Creo. Co., Texarkana, Ark.

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14015	natpigco	National Pigment & Chemical Co., St. Louis, Mo.
14016	natsadoco	National Sash & Door Co., Independence, Kans.
14018	nazinc	National Zinc Co., Kansas City, Kans.
14024	newdel	New Delphos Mfg. Co., Delphos, Ohio.
14029	newmexgly	New Mexico Glycerin Co., Artesia, N. M.
14030	newport	Newport Co., Carrolville, Wisc.
14031	newromills	Newport Rolling Mills, Newport, Ky.
14038	norbarbco	Northwestern Barb Wire Co., Sterling, Ill.
14051	naleadco	National Lead Co., St. Louis, Mo.

15000	**obear**	**Obear Nester Glass Co., East St. Louis, Ill.**
15004	olds	Olds Soap & Chemical Co., Indianapolis.
15017	ouachita	Ouachita Valley Refg. Co., El Dorado, Ark.
15021	ozark	Ozark Chemical Co., Tulsa, Okla.

16011	**paris**	**Paris Medicine Co., St. Louis, Mo.**
16025	peckproco	Pecks Products Co., St. Louis, Mo.
16036	peroxide	Peroxide Chemical Co., St. Louis, Mo.
16051	pinkerton	Pinkerton Tobacco Co., Toledo, Ohio.
16057	pittslass	Pittsburgh Plate Glass Co., Pittsburgh.
16057	pittsona	Pittsburgh Plate Glass Co., Milwaukee.
16068	propedo	The Producers Torpedo Co., Marietta, Ohio.
16070	provichem	Provident Chemical Works, St. Louis.
16082	perfcuit	Perfection Biscuit Co., Ft. Wayne, Ind
16092	pennsalco	Pennsylvania Salt Mfg. Co., Philadelphia, Pa.

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TERRITORY SL—Continued

18000	**radford**	**J. M. Radford Grocery Co., Abilene, Texas.**
18024	rhodia	Rhodia Chemical Co., New York, N. Y.
18040	robins	G. S. Robins & Co., **St. Louis, Mo.**
18041	rochicide	Rochester Germicide Co., Rochester.
18072	roxana	Roxana Petroleum Corp., **St. Louis.**

19000	**stjoe**	**St. Joe Lead Co., Bonne Terre.**
19001	slity	City of St. Louis, St. Louis, Mo.
19002	slokico	St. Louis Coke & Iron Co., Granite City, Ill.
19003	comouis	St. Louis Comey Co., St. Louis, Mo.
19004	frisco	St. Louis, San Francisco Ry., St. Louis.
19005	screwco	St. Louis Screw Co., St. Louis, Mo.
19006	shovel	St. Louis Shovel Co., St. Louis, Mo.
19010	sangamo	Sangamo Electric Co., Springfield, Ill.
19020	schaap	John Schaap & Sons Drug Co., Ft. Smith, Ark.
19065	simms	Simms Oil Co., Dallas, Texas.
19067	sinclago	Sinclair Refining Co., Chicago, Ill.
19067	sinclair	Sinclair Refining Co., New York, N. Y.
19088	solvay	Solvay Process Co., St. Louis, Mo.
19088	solvasales	Solvay Sales Corp., Syracuse, N. Y.
19101	spaulding	Spaulding Fibre Co., Inc., Tonawanda, N. Y.
19102	spalmerick	Spaulding & Merrick, Chicago, Ill.
19107	staley	A. E. Staley Mfg. Co., Decatur, Ill.
19118	standamp	Standard Stamping Co., St. Louis, Mo.
19160	sutliff	Sutliff & Case Co., Peoria, Ill.
19165	swiftill	Swift & Co., National Stock Yards, Ill.
19165	swiftfert	Swift & Co., Fertilizer Works, National Stock Yards, Ill.
19165	swiftbush	Swift & Co., Bushnell, Ill.
19165	swiftatur	Swift & Co., Decatur, Ill.
19165	swiftville	Swift & Co., Prod. Plant, Jacksonville, Ill.
19165	swiftvern	Swift & Co., Mt. Vernon, Ill.
19165	swiftvans	Swift & Co., Evansville, Ind.
19165	swiftinda	Swift & Co., Clarinda, Ia.
19165	swifton	Swift & Co., Clinton, Ia.
19165	swiftest	Swift & Co., Creston, Ia.
19165	swiftoines	Swift & Co., Des Moines, Ia.
19165	swiftkuk	Swift & Co., Keokuk, Ia.

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19165	swiftwa	Swift & Co., Ottumwa, Ia.
19165	swiftcenter	Swift & Co., Clay Center, Kans.
19165	swiftpars	Swift & Co., Produce Plant, Parsons, Kans.
19165	swiftings	Swift & Co., Billings, Montana.
19165	swiftcothe	Swift & Co., Chillicothe, Mo.
19165	swiftalia	Swift & Co., Sedalia, Mo.
19165	swiftfield	Swift & Co., Produce Plant, Springfield, Mo.
19165	swiftenton	Swift & Co., Trenton, Mo.
19165	swiftrice	Swift & Co., Beatrice, Nebr.
19165	swiftbus	Swift & Co., Columbus, Nebr.
19165	swiftlint	Swift & Co., Clinton, Okla.
19165	swifthoma	Swift & Co., Produce Plant, Oklahoma City, Okla.
19165	swiftnash	Swift & Co., Nashville, Tenn.
19174	slinning	St. Louis Tinning & Retinning Co., St. Louis, Mo.

20010	**terrepaper**	**Terre Haute Paper Co., Terre Haute, Ind.**
20013	thomward	Thompson Hayward Chemical Co., Kansas City, Mo.
20013	thomical	Thompson Hayward Chemical Co., St. Louis, Mo.
20021	titanium	Titanium Pigment Co., St. Louis, Mo.
20035	turner	Jos. Turner & Co., New York, N. Y.

21005	**uelpoco**	**Union Electric Light & Power Co., St. Louis, Mo.**
21007	uniarch	Union Starch & Refining Co., Granite City, Ill.
21008	unichemco	United Chem. Co., Kansas City, Mo.
21009	unitalco	United Chemical Co., Dallas, Texas.
21012		U. S. Department of Agriculture (various addresses).
21014	usnavmed	U. S. Naval Medical Supply, Brooklyn.
21015	usindow	U. S. Sheet & Window Glass Co., Toledo, Ohio.

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TERRITORY SL—Continued

22009	**vanvleet**	**Van Vleet Mansfield Drug Co., Memphis, Tenn.**
22014	vestal	Vestal Chemical Co., St. Louis, Mo.
22015	vickers	Vickers Petroleum Co., Wichita, Kans.
23001	**wabash**	**Wabash Railway Co., St. Louis.**
23021	warnerjenk	Warner-Jenkinson Co., St. Louis.
23036	westant	West Disinfectant Co., St. Louis, Mo.
23040	westridge	Western Cartridge Co., East Alton, Ill.
23048	westingend	Westinghouse Electric Co., South Bend, Ind.
23063	wilkinuk	Wilkinson & Company, Keokuk, Ia.
23064	willardbat	Willard Storage Battery Co., St. Louis.
23069	wingvans	Wing & Evans, Inc., New York, N. Y.
23081	woolfolk	J. W. Woolfolk Co., Ft. Valley, Ga.
26003	**zeller**	**Felix Zeller, St. Louis, Mo.**

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CUSTOMERS

TERRITORY 1

1002	**abco**	**A. B. C. Candy Co., Sherman, Tex.**
1009	adpow	Adams Powell & Co., Statesville, N. C.
1013	aldo	Alexander Drug Co., Oklahoma City.
1016	allawood	Allaire-Woodward & Co., Peoria, Ill.
1018	alcanco	Allen Candy Co., Pontiac, Ill.
1037	amdisco	American Distilling Co., Pekin, Ill.
1049	amvetla	American Veter. Lab., Kansas City, Mo.
1059	antikamnia	Antikamnia Remedy Co., St. Louis, Mo.
1064	ardpro	Arctic Dairy Prod. Co., Detroit, Mich.
1064	arcledge	Arctic Dairy Prod. Co., Grand Ledge, Mich.
1065	arcale	Arctic Fruit Ale., Detroit, Mich.
1071	aschner	Aschner Bros. Mfg. Co., Dallas, Texas.
1081	allden	Charles R. Allden, Laredo, Texas.

2000	**babbit**	**Babbit Bros., Boise, Idaho.**
2007	bakuk	S. F. Baker & Co., Keokuk, Ia.
2010	bakercon	Bakers & Conf. Sup. Co., Detroit.
2011	baksup	Bakers Sup. & Serv. Co., Detroit.
2013	ballard	James F. Ballard, Inc., St. Louis, Mo.
23088	barksdale	Barksdale Chemical Co., Memphis, Tenn.
2019	barlow	Joe Barlow, Distributor, Dallas, Texas.
2025	basgrig	Bass Isgrig Seed Co., Little Rock, Ark.
2026	battle	Battle & Co., St. Louis, Mo.
2027	batfer	Battle Creek Wafer & Specialty Co., Battle Creek, Mich.
2031	bear	G. C. Bear & Co., Detroit, Mich.
2036	beich	Paul F. Beich Co., Bloomington, Ill.
2043	benner	Benner Tea Co., Burlington, Ia.
2049	bessire	Bessire & Co., Inc., Indianapolis, Ind.
2052	bigelow	R. V. Bigelow Supply Co., El Paso.
2053	bindley	E. H. Bindley & Co., Terre Haute.
2062	blanke	Blanke Baer Extract & Pres. Co., St. Louis, Mo.
2065	blue	Blue Line Chemical Co., St. Louis, Mo.
2066	blubbon	Blue Ribbon Chem. Co., Kansas City, Mo.
2067	bluridge	Blue Ridge Bottling Co., St. Louis, Mo.
2071	bohannon	F. M. Bohannon, Winston-Salem, N. C.
2076	bourland	Jim Bourland, Houston, Texas.
2087	breimeyer	H. G. Breimeyer, St. Louis, Mo.
2088	breon	George A. Breon & Co., Kansas City, Mo.
2092	bright	The Bright Biscuit Co., Kansas City, Mo.
2099	brown	Brown Cracker & Candy Co., Dallas.

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2101	browntob	W. A. Brown Tobacco Co., Martinsvil Va.
2102	brownson	Brown & Williamson Tobacco Co., W ston-Salem, N. C.
2103	bruce	E. E. Bruce & Co., Omaha, Nebr.
2111	bull	W. H. Bull Medicine Co., St. Louis.
2113	bundy	C. M. Bundy Co., Indianapolis, Ind.
2116	burdsal	The A. Burdsal Co., Indianapolis, In
2120	busch	John B. Busch Brewing Co., Washir ton, Mo.
2123	busbee	Busy Bee Candy Co., St. Louis, Mo.
2126	blauls	John Blaul's Sons, Burlington, Ia.
2132	bailey	Bailey Mfg. Co., Dallas, Texas.
2135	baumers	Baumers Fruit Prod. Co., New Orlear

3008	campbell	V. V. Campbell Co., Oklahon City, Okla,
3011	cannon	Cannon Chemical Co., Memphis, Ten
4008	capbotco	Capitol Bottling Co., Indianapolis, In
3012	capudine	Capudine Chemical Co., Raleigh, N.
3017	carnation	Carnation Toilet Co., St. Louis, Mo.
3018	carrier	Carrier Stephens Co., Lansing, Mich
3022	cazort	J. G. Cazort, LaMar, Ark.
3023	celery	Celery-Vesce Co., Indianapolis, Ind.
3025	cenchem	Central Chemical Co., Kansas City, M
3031	censpec	Central Specialty Co., Kansas City, M
3032	cenbisc	Century Biscuit Co., Indianapolis, In
3033	chamco	F. B. Chamberlain Co., St. Louis, M
3035	chamberlain	Chamberlain Medicine Co., Des Moine
3046	cherocola	Chero-Cola Bottling Co., Fayettevill N. C.
3047	cherotex	Chero-Cola Bottling Co., Ft. Worth.
3049	chesterfield	Chesterfield's Creamery & Bottli Works, Clinton, Ind.
3061	churchia	Churchill Drug Co., Peoria, Ill.
3062	churchill	Churchill Drug Co., Burlington, Ia.
3081	clossen	W. E. Clossen Medicine Co., Ind pendence, Ia.
3090	cole	Cole Chemical Co., St. Louis, Mo.
3094	collins	Clyde Collins Chemical Co., Memphis
3095	columbia	Columbia Mineral Water Co., St. Lou
3099	comchem	Commercial Chemical Co. of Ten Memphis, Tenn.
3101	comlab	Commercial Lab. Co., Columbia, S.
3111	conbisc	Consumers Biscuit Co., New Orlean
3115	continental	Continental Drug Co., Alton, Ill.

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TERRITORY 1—Continued

3117	conbot	Conway Bottling Co., Conway, Ark.
1047	crescohol	Crescent Industrial Alcohol Co., New Orleans, La. (American Solvents & Chem. Corp.)
3129	crescrax	Crescent Macaroni & Cracker Co., Davenport, Ia.
3138	curts	Curts-Folse Lab., Kansas City, Kans.
3141	crescent	Crescent City Carbonate Co., New Orleans, La.
3147	clausen	Clausen Zoller Co., St. Louis, Mo.
3149	cencal	Century Chemical Products, Detroit.
3154	chasandy	Chase Candy Co., St. Joseph, Mo.

4004	**darmody**	**J. F. Darmody Co., Indianapolis.**
4008	capbotco	Sam Davis & Co., Indianapolis, Ind.
4023	dennery	Chas. Dennery, New Orleans, La.
4027	decerco	Detroit Creamery Co., Detroit, Mich.
4028	dedenco	Detroit Dental Mfg. Co., Detroit, Mich.
4029	defraico	Detroit Frago Ice Cream Cone Co., Detroit, Mich.
4034	diboco	Diamond Bottling Co., St. Louis, Mo.
4039	dilling	Dilling & Co., Indianapolis, Ind.
4048	dreibus	Dreibus Candy Co., Omaha, Neb.
4060	dychemine	Dyestuff & Chemical, Inc., St. Louis.

5008	**eastbot**	**East Side Bottling Co., East St. Louis, Ill.**
5013	eddyeddy	Eddy & Eddy Mfg. Co., St. Louis, Mo.
5015	edbasup	The Edwards Bakery Supply Co., Colorado Springs, Colo.
5017	edbowo	Edwardsville Bottling Works, Edwardsville, Ill.
5022	elkbot	Elk Bottling Co., St. Louis.
5025	elmer	Elmer Candy Co., New Orleans, La.
5029	empire	Empire Bottling Co., St. Louis, Mo.
5030	emprod	Empire Prod. Co., El Paso, Texas.
5034	enterprise	Enterprise Chemical Co., St. Louis, Mo.
5037	evansrich	Evans-Rich Mfg. Co., St. Louis, Mo.

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6002	**fairmount**	**Fairmount Cream. Co., Omaha.**
6013	farrand	Farrand, Williams & Clark, Detroit.
6018	federal	Federal System of Bakeries of America, Inc., Davenport, Ia.
6024	firtex	First Texas Chem. Mfg. Co., Dallas.
6025	fitch	The F. W. Fitch Co., Des Moines, Ia.
6026	flava	Flava Mfg. Co., Quincy, Ill.
6028	fleaton	Flint Eaton & Co., Decatur, Ill.
6031	flynn	J. J. Flynn & Co., Quincy, Ill.
6034	footjenk	Foote & Jenks, Jackson, Mich.
6035	forbes	Jas. H. Forbes Tea & Spice Co., St. Louis, Mo.
6039	forst	Forst Products Co., Inc., New Orleans.
6041	fortbisc	Fort Smith Biscuit Co., Ft. Smith, Ark
6042	foster	C. Foster Chemical Co., Decatur, Ill.
6044	foxproco	Geo. A. Fox Prod. Co., Kansas City, Mo.
16064	price	Franklin Price, Iowa City, Ia.
6061	furman	The Furman Co., Houston, Texas.
6064	fitcham	A. M Fitch, Indianapolis, Ind.

7000	**gallagher**	**E. B. Gallagher & Co., Detroit.**
7005	garrison	Robert Garrison & Co., Memphis, Tenn.
7011	gateway	Gateway Chemical Co., Kansas City, Mo.
7019	germicide	The Germicide Co., Denver, Colo.
7021	germoco	Germo Mfg. Co., St. Louis, Mo.
7023	geegee	G. & G. Paste Co., Kansas City, Mo.
7025	gilbchoc	John O. Gilbert Choc. Co., Jackson, Mich.
7026	gillen	Gillen & Boney, Lincoln, Neb.
7038	gomez	Garcia Gomez & Co., Brownsville, Tex.
7046	graham	Graham Ice Cream Co., Omaha, Nebr.
7056	greentobac	Green River Tobacco Co., Owensboro, Ky.
7058	grennan	Grennan Bakeries Co., Inc., Detroit.
7059	griffin	Griffin & Co., St. Louis, Mo.
7061	grosoda	Christ Gross Soda & Mineral Water Co. St. Louis, Mo.
7065	guthrie	Guthrie Mercantile Co., St. Joseph, Mo.
7067	goetz	M. K. Goetz Brew. Co., St. Joseph, Mo.

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TERRITORY 1—Continued

8001	**hadley**	**Hadley-Taylor Co., Greensboro, N. C.**
8005	hallanco	Walter T. Hall & Co., Ottumwa, Ia.
8006	haller	The Haller Co., Blair, Nebr.
8014	hardesty	J. C. Hardesty Mfg. Co., Indianapolis.
8018	hardicream	Harding Cream Co., Omaha, Neb.
8018	harding	Harding Cream Co., Kansas City, Mo.
8022	harper	Jas. A. Harper Supply Co., Kansas City, Mo.
8025	hart	E. J. Hart & Co., New Orleans, La.
8026	hartz	J. F. Hartz Co., Detroit, Mich.
8034	heberling	Heberling Medicine & Extract Co., Bloomington, Ill.
8037	heil	Henry Heil Chemical Co., St. Louis.
8042	helm	Helm Laboratories, New Orleans, La.
8047	herpicide	Herpicide Company, Detroit, Mich.
8049	herriott	Herriott Polish Co., St. Louis, Mo.
8054	higley	Higley Chemical Co., Dubuque, Ia.
7005	hinds	M. E. Hinds & Co., Memphis, Tenn.
8059	holcomb	J. I. Holcomb Mfg. Co., Indianapolis.
8064	hook	Hook Drug Co., Indianapolis, Ind.
8067	hoopharm	Hoosier Pharmaceutical Co., Indianapolis, Ind.
8071	horshopick	Horse Shoe Pickle Works, New Orleans.
8076	hapecof	H. P. Coffee Co., St. Louis, Mo.
8082	hurtipeck	Hurty Peck & Co., Indianapolis, Ind.

9008	**inbako**	**Independent Baking Co., Davenport, Ia.**
9014	inchempro	Industrial Chemical Prod. Co., Detroit.
9017	interugco	International Drug Co., Inc., Brownsville, Texas.
9023	iodent	Iodent Chemical Co., Detroit, Mich.
9025	iobisc	Iowa Biscuit Co., Burlington, Ia.
9027	irwineis	Irwin, Neisler & Co., Decatur, Ill.
9029	itenton	Iten Biscuit Co., Clinton, Ia.
9029	iten	Iten Biscuit Co., Omaha, Nebr.
9029	itenok	Iten Biscuit Co., Oklahoma City, Okla.
9029	itenphis	Iten Biscuit Co., Memphis, Tenn.
9030	ixl	I. X. L. Chemical & Supply Co., St. Joseph, Mo.

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10001	**jackbrewco**	**Jackson Brew. Co., New Orleans.**
10004	jamboco	James Bottling Co., St. Louis, Mo.
10005	jamieson	C. E. Jamieson & Co., Detroit, Mich.
10011	jensbery	Jensen-Salsbery Labs., Kansas City, Mo.
10015	jessup	Jessup & Antrim Ice Cream Co., Indianapolis, Ind.
10016	jewedrug	Jewett Drug Co., Aberdeen, S. D.
10021	johnbico	Johnson Biscuit Co., Sioux City, Ia.
10029	junge	Junge Baking Co., Joplin, Mo.
10032	jennings	Mr. Frank Jennings, Louisiana, Mo.

4008	**capboteo**	**Knebler Distrib. Co., Indianapolis.**
11001	karcher	A. Karcher Candy Co., Little Rock.
11002	katharmon	Katharmon Chemical Co., St. Louis, Mo.
11007	kellard	Kelly & Pollard, El Paso, Texas.
11015	kerank	Frank W. Kerr Co., Detroit, Mich.
11018	keysall	Keysall Pharm. Co., Kansas City, Mo.
11021	kiefart	Kiefer-Stewart Co., Indianapolis, Ind.
11024	kincaco	King Candy Co., Ft. Worth, Texas.
11026	kinmaco	King Mfg. Co., St. Louis, Mo.
11027	kingham	Kingham Bros., Indianapolis, Ind.
11032	katrio	K. K. K. Medicine Co., Keokuk, Ia.
11041	kokenco	Koken Companies, St. Louis, Mo.
11049	kuehne	Kuehne Extract Co., St. Louis, Mo.
11052	knewitz	G. Knewitz, East St. Louis, Ill.
11054	keystolab	Keystone Laboratories, Memphis, Tenn.
11056	kohn	Kohn Bros. Brokerage Co., Omaha, Neb.
11058	kinstobo	Kinston Bottling Works, Kinston, N. C.

12001	**lafacal**	**Lafayette Pharm. Co., Lafayette.**
12004	lamsham	Lambert-Grisham Hdwe. Co., Henderson, Ky.
12005	lamacal	Lambert Pharmacal Co., St. Louis, Mo.
12012	lantz	Lantz Bros. Baking Co., St. Louis.
12015	larticide	Larson Insecticide Products Co., Detroit, Mich.
12028	levenson	Levenson Chemical Co., Omaha, Nebr.
12032	libling	Liberty Bottling Co., St. Louis, Mo.
12033	libucoco	Liberty Union Cone Co., St. Louis, Mo.
12039	lilly	Eli Lilly & Co., Indianapolis, Ind.
12040	lillice	Lily Ice Cream Co., Phoenix, Ariz.
12046	liroboco	Little Rock Bottling Co., Little Rock.
12047	lockhead	Lockhead Chemical Co., St. Louis, Mo.

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12058	loosago	Loose-Wiles Biscuit Co., Chicago, Ill.
12058	loosmin	Loose-Wiles Biscuit Co., Minneapolis.
12058	loosiles	Loose-Wiles Biscuit Co., Kansas City, Mo.
12058	looslouis	Loose-Wiles Biscuit Co., St. Louis.
12058	loosaha	Loose-Wiles Biscuit Co., Omaha, Nebr.
12077	luyties	Luyties Pharmacal Co., St. Louis, Mo.
12078	lyko	Lyko Medicine Co., Kansas City, Mo.
12080	lyonsil	I. L. Lyons & Co., New Orleans, La.
12085	lambman	Lambert & Lowman, Detroit, Mich.

13002	**macarty**	**J. A. McCarty Seed Co., Evansville, Ind.**
13014	macpike	McPike Drug Co., Kansas City, Mo.

13015	**manns**	**Albert G. Manns, Indianapolis, Ind.**
13042	maull	L. C. Maull Food & Products Co., St. Louis, Mo.
13043	maury	Maury-Cole Co., Memphis, Tenn.
13048	merchtract	Merchant Extract Co., Denver, Colo.
13049	merchbisc	Merchants Biscuit Co., Denver, Colo.
13065	meycof	Meyer Bros. Coffee & Spice Co., St. Louis, Mo.
13066	meybros	Meyer Bros. Drug Co., St. Louis, Mo.
13068	michdrug	Michigan Drug Co., Detroit, Mich.
13070	midlical	Midland Chemical Labs., Inc., Dubuque, Ia.
13072	milesmed	Dr. Miles Medical Co., Elkhart, Ind.
13074	milliken	John T. Milliken & Co., St. Louis, Mo.
13078	mocanco	Missouri Candy Co., St. Louis, Mo.
13079	mococo	Missouri Cone Co., St. Louis, Mo.
13082	mosodworks	Missouri Soda Works, St. Louis, Mo.
13084	mistletoe	Mistletoe Creameries, San Antonio.
13090	montrose	Montrose Bottling Co., St. Louis, Mo.
13091	momueward	Mooney-Mueller-Ward Co., Indianapolis, Ind.
13093	moordruco	Moore Drug Co., New Orleans, La.
13096	moreymerc	The Morey Mercantile Co., Denver.

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13109	mouncibot	Mound City Bottling Co., St. Louis.
13113	mulsolax	Mulsolax Co., Kalamazoo, Mich.
13117	murphy	Murphy Disinfectant Co., Little Rock.
13118	murred	Edgar A. Murray Co., Detroit, Mich.
13119	murrext	Murray Extract Mfg. Co., Wichita.
13128	mewhinney	A. B. Mewhinney, Terre Haute, Ind.
13131	mallard	A. E. Mallard, Detroit, Mich.
13132	murrin	John Murrin Co., Ft. Worth, Texas.

14005	**natbotco**	**National Bottling Co., St. Louis.**
14006	natcasl	National Candy Co., St. Louis, Mo.
14006	natcaco	National Candy Co., Chicago, Ill.
14010	nafruco	National Fruit Flavor Co., New Orleans.
14011	natindalco	National Industrial Alcohol Co., New Orleans, La.
14014	natpharmco	National Pharmacal Co., Detroit, Mich.
14017	natimco	National Tea Importing Co., Salt Lake City, Utah.
14020	naughtin	T. F. Naughtin Co., Omaha, Neb.
14021	nehi	Nehi Bottling Co., Salisbury, N. C.
14022	nelbaco	Nelson Baker & Co., Detroit, Mich.
14034	noggle	S. W. Noggle Co., Kansas City, Mo.
14039	norcarbco	Northwestern Carbonating Co., St. Louis, Mo.
14049	nushine	Nu-Shine Co., Reidsville, N. C.

15000	**oransmile**	**Orange Smile Syrup Co., St. Louis.**
15020	owlchemco	Owl Chemical Co., Terre Haute, Ind.

16000	**packwood**	**G. H. Packwood Mfg. Co., St. Louis, Mo.**
16002	page	Page Coffee Co., St. Joseph, Mo.
16005	palmolive	Palmolive-Peet Co., Kansas City, Kans.
16013	parkdav	Parke Davis & Co., Detroit, Mich.
16014	parkake	Parker Blake Co., New Orleans, La.
16015	parown	Parker Brown, Ft. Worth, Texas.
16018	passey	Passey Bros. Products Co., Inc., Phoenix, Ariz.
16022	paulian	Paulian Drug & Chem. Co., St. Louis.

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TERRITORY 1—Continued

16026	peek	J. J. Peek, Dallas, Texas.
16034	pepper	Dr. Pepper Co., Dallas, Texas.
16047	phosferone	Phos-Ferrone Co., St. Louis, Mo.
16052	pinkolax	Pinko-Laxin Corp., St. Louis, Mo.
16054	pitmoore	Pitman Moore Co., Indianapolis, Ind.
16059	plough	Plough Chemical Co., Memphis, Tenn.
16064	price	R. L. Price, Administrator, Price Estate, Iowa City, Ia.
16065	pricanco	Price Candy Co., Kansas City, Mo.
16066	priceans	C. H. Price (Maison Blanche Co.,) New Orleans, La.
16069	propro	Protection Products Co., Kalamazoo, Mich.
16073	pufopro	Pure Food Products Co., Inc., Dallas.
16077	puritan	Puritan Pharmacal Co., St. Louis, Mo.
16079	puriscuit	Purity Biscuit Co., Salt Lake City.
16080	purity	Purity Food Products Co., Houston.
16081	puritext	Purity Extract Co., St. Louis, Mo.
16085	pibakinc	Pie Bakeries of America, Inc., Detroit.
16093	peobacco	People's Tobacco Co., New Orleans, La.

17002	**Quinn**	**Quinn-Barry Tea & Coffee Co., Springfield, Mo.**

18010	**realsowaco**	**Real Soda Water Co., St. Louis.**
18011	reball	Red Ball Co., Madrid, Iowa.
18019	rexco	The Rex Co., Kansas City, Mo.
18023	reynolds	R. J. Reynolds Tobacco Co., Winston-Salem, N. C.
18030	richcuit	Richmond Biscuit Co., Richmond, Ind.
18037	robross	Robb Ross Co., Sioux City, Ia.
18053	rosswell	Rosswell Cook Co., Detroit, Mich.
18054	rothtoco	Roth Tobacco Co., Cape Girardeau.
18059	roylsoda	Royal Soda Water Co., St. Louis, Mo.
18073	roszell	J. D. Roszell Co., Peoria, Ill.

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19008	**santruco**	**San Antonio Drug Co., San Antonio, Texas.**
19009	santine	Sanderson-Tintine Co., Lincoln, Nebr.
19014	sanispec	Sanitary Specialties Co., Denver, Colo.
19015	satin	Satin Ice Cream Co., Omaha, Nebr.
19020	schaap	John Schapp & Sons Drug Co., Ft. Smith, Ark.
19021	schalls	Schall's, Inc., Clinton, Ia.
19026	schmand	Schmand-Porbeck Co., Inc., Little Rock.
19036	scott	Frank G. Scott, Detroit, Mich.
19037	scotten	Scotten Dillon Co., Detroit, Mich.
19040	seely	Seely Mfg. Co., Detroit, Mich.
19055	sherdall	Sherwin-Williams Co., Dallas, Texas.
19060	shores	Shores-Mueller Co., Cedar Rapids, Ia.
19064	sifers	The Sifers Conf. Co., Kansas City, Mo
19078	smidorsey	Smith Dorsey Co., Inc., Lincoln, Nebr
19079	smidrug	C. D. Smith Drug Co., St. Joseph, Mo.
19086	snyder	R. W. Snyder, Battle Creek, Mich.
19091	soubev	Southern Beverage Co., Galveston, Tex.
19092	soucream	Southern Creameries, Nashville, Tenn.
19099	soucheco	Southwest Chemical Corp., Dallas.
19103	specmaco	Specialty Mfg. Co., Memphis, Tenn.
19107	staley	A. E. Staley Mfg. Co., Decatur, Ill.
19109	stancuit	Standard Biscuit Co., Des Moines, Ia.
19111	stanical	Standard Chemical Co., Des Moines, Ia.
19126	stearns	Frederick Stearns & Co., Detroit, Mich.
19128	steinwender	Steinwender-Stoffregen Coffee Co., St. Louis, Mo.
19130	sterling	Sterling Pickling Works, St. Joseph, Mo.
19148	sultan	Sultan Drug Co., St. Louis, Mo.
19160	sutliff	Sutliff & Case Co., Peoria, Ill.
19161	swanyers	Swan-Myers Co., Indianapolis, Ind.
19162	sweet	Sweet Candy Co., Salt Lake City, Utah.
19163	sweeton	Sweet Honey & Queen Soda Water Co., St. Louis, Mo.
19175	soucoco	Southwestern Cone Co., Ft. Worth.
19176	sayman	T. M. Sayman Products Co., St. Louis.
19178	slater	Slater Laboratories, Cedar Rapids, Ia.
19181	schroeder	Mr. Henry Schroeder, Waterloo, Ill.
19182	schweigler	E. Schweigler S. W. Co., St. Louis, Mo.

20004	**taylorbros**	**Taylor Bros., Inc., Winston-Salem.**
20005	taylong	Taylor-Long Co., Inc., Charlotte, N. C.
20007	tebelman	Tebelman Baking Co., St. Louis, Mo.
20012	thomarke	Thomas & Clarke, Peoria, Ill.
20013	thomward	Thompson-Hayward Chem. Co., Kansas City, Mo.

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TERRITORY 1—Continued

20013	thomical	Thompson-Hayward Chem. Co., St. Louis, Mo.
20017	tilden	The Tilden Co., St. Louis, Mo.
20019	tiptobot	Tip Top Bottling Co., St. Louis, Mo.
20022	tentex	T. N. T. Exterminating Co., Indianapolis, Ind.
20023	todd	A. M. Todd Co., Kalamazoo, Mich.
20026	trammell	G. W. Trammell, West Columbia, Tex.
20027	travis	W. W. Travis Co., Bloomington, Ill.
19091	triplex	Triple XXX Co., Galveston, Texas.

21003	**unioncult**	**Union Biscuit Co., St. Louis, Mo.**
21006	unipharm	Union Pharmacal Co., Kansas City, Mo.
21008	unichemco	United Chemical Co., Kansas City, Mo.
21020	upjohn	Upjohn Co., Kalamazoo, Mich.

22003	**vancamp**	**Van Camp Hardware & Iron Co., Indianapolis, Ind.**
22006	vanity	Vanity Fair Co., Memphis, Tenn.
22009	vanvleet	Van Vleet Mansfield Drug Co., Memphis, Tenn.
22017	vicalties	Victory Specialties Co., Detroit, Mich.
22024	vories	Vories Baking Co., New Orleans, La.

23000	**wabaking**	**Wabash Baking Powder Co., Wabash, Ind.**
23006	wagnerbro	Chas. P. Wagner & Bro., New Orleans.
23019	warnermo	William R. Warner & Co., St. Louis.
23021	warnerjenk	Warner Jenkinson Co., St. Louis, Mo.
23023	waterbury	Waterbury Chemical Co., Inc., Des Moines, Ia.
23024	waterleans	Waterbury Chemical Co., New Orleans.
23025	watkinalva	Alva F. Watkins Co., Jackson, Mich.
23028	waxahachie	Waxahachie Medicine Co., Waxahachie, Texas.

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23031	webster	Wm. A. Webster Co., Memphis, Tenn.
23033	weisert	John Weisert Tobacco Co., St. Louis.
23034	weiserbros	Weisert Bros. Tobacco Co., St. Louis.
23039	webasuco	The Western Bakers Supply Co., Denver, Colo.
23043	wesgromil	Western Grocery Mills, Marshalltown, Ia.
23047	wesindia	West India Mfg. Co., St. Louis, Mo.
23049	weyer	George H. Weyer, Kansas City, Mo.
23055	whitouse	White House Biscuit Co., Dubuque, Ia.
23060	wiese	Wiese Chemical Products Co., Omaha, Nebr.
23065	willisan	Willis Sanitary Products Co., Lincoln, Nebr.
23076	witsell	Witsell Bros. Mfg. Co., Memphis, Tenn.
23077	wolfhen	Henry Wolf, Belleville, Ill.
23085	wyethical	Wyeth Chemical Co., Detroit, Mich.
23088	barksdale	Barksdale Chemical Co., Memphis.
23093	waltmaco	Walter Mfg. Co., Omaha, Nebr.

25002	**yerkes**	**Yerkes Chemical Co., Winston-Salem, N. C.**

29002	**zatarain**	**E. A. Zatarain & Sons, Inc., New Orleans, La.**

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TERRITORY 2

1004	**acebot**	**Acme Bottling Co., Louisville, Ky.**
1011	adrian	Adrian Chemical Co., Pittsburgh, Pa.
1012	akwhol	Akron Wholesale Coffee Co., Akron.
1020	allied	Allied Drug Prod. Co., Chattanooga.
1045	amprod	American Products Co., Cincinnati.
1052	anderson	R. P. Anderson, Sunbury, Ohio.
1053	anderind	Anderson Indian Medicine Co., Middlesboro, Ky.
1076	axton	Axton-Fisher Tobacco Co.. Louisville.
1077	aromint	The Aromint Co., Cincinnati, Ohio.
1080	aminsec	American Insecticide Co.. Lima, Ohio.

2003	**bailey**	**Bailey Drug Co., Zanesville, Ohio.**
2012	balch	G. G. Balch Co., N. S., Pittsburgh, Pa.
2030	bayerstate	Dr. E. W. Bayer Estate, Cincinnati.
2033	beaver	Beaver Chemical Corp., Damascus, Va.
2038	bell	Bell Chemical Works, Bellevue, Ky.
2045	bennett	Bennett-Hubbard Candy Co., Chattanooga, Tenn.
2051	bickford	Bickford Laboratories Co., Akron, Ohio.
2064	block	F. E. Block Co., Atlanta, Ga.
2072	boland	J. L. Boland Co., Louisville, Ky.
2081	bradas	Bradas & Gheens, Louisville, Ky.
2084	braun	H. Braun Sons Co., Columbus, Ohio.
2133	bessirky	Bessire & Co., Louisville, Ky.

3000	**canby**	**Canby, Ach & Canby Co., Dayton.**
4008	cabottle	Capital Bottling Co., Indianapolis, Ind.
3024	celtonsa	Cel-Ton-Sa Remedy Co., Cincinnati.
3027	cenosup	Central Ohio Supply Co., Columbus.
3028	cenpharm	Central Pharmacal Co., Seymour, Ind.
3034	chambco	The Chamberlain Co., S. S., Pittsburgh.
3037	chamchem	Champion Chemical Co., Springfield, O.
3039	chatamed	Chattanooga Medicine Co., Chattanooga.
3043	chemsup	Chemical Supply Co., Cleveland, Ohio.
3044	chemutil	The Chemical Utilities Co., Cincinnati.
3045	chemicraft	Chemicraft Products Co., Cleveland.
3048	chero	Chero Cola Co., Columbus, Ga.

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3060	christy	H. C. Christy Co., Cleveland, Ohio.
3066	cincand	Cincinnati Candy Co., Cincinnati.
3067	cinchem	Cincinnati Chemical Works, Cincinnati.
3068	cinext	Cincinnati Extract Co., Cincinnati, Ohio.
3069	cinoap	Cincinnati Soap Co., Cincinnati, Ohio.
3070	citizens	Citizen's Wholesale & Supply Co., Columbus, Ohio.
3075	clargum	Clark Bros. Chewing Gum Co., Pittsburgh, Pa.
3076	clarkdel	D. L. Clark Co., Pittsburgh, Pa.
3091	coleman	The Coleman & Bell Co., Norwood, O.
3093	collier	Collier Drug Co., Birmingham, Ala.
3096	columchem	Columbus Chemical Co., Columbus, O.
3097	colpharm	Columbus Pharmacal Co., Columbus, O.
3113	condist	Consumers Distributing Co., Pittsburgh
3135	cumberland	Cumberland Mfg. Co., Nashville, Tenn.
3140	cino	Cino Chemical Products, Cincinnati.

4009	**davemco**	**Davis, Mfg. Co., Knoxville, Tenn.**
4013	daybisc	Dayton Biscuit Co., Dayton, Ohio.
4014	dayfoopro	Dayton Food Products Co., Dayton.
4024	depree	De Pree Co., Holland, Mich.
4030	devore	De Vore Mfg. Co., Columbus, Ohio.
4042	dorn	John G. Dorn, Sandusky, Ohio.
4043	doscher	Doscher Bros., Cincinnati, Ohio.
4044	doster	Doster-Northington, Inc., Birmingham.
4057	durr	Durr Drug Co., Montgomery, Ala.
4064	daypharm	Dayton Pharmacal Co., Dayton, Ohio.
4065	dunwody	R. G. Dunwody & Sons, Atlanta, Ga.

5002	**eapharm**	**East Atlanta Pharm., Atlanta, Ga.**
5009	eaton	George F. Eaton & Co., Cincinnati.
5016	edwill	Wm. Edwards Co., Cleveland, Ohio.
1076	eighthour	The Eight Hour Tobacco Co., Cincinnati, Ohio.
5020	elder	Paul B. Elder Co., Bryon, Ohio.
23062	eureka	Eureka Products Co., Louisville, Ky.
5042	exo	Exo Chemical Co., Jacksonville, Fla.
5045	eatmor	Eatmor Chocolate Co., Pittsburgh, Pa.

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6015	**fedcolab**	**Federal Color, Lab., Norwood, O.**
6016	fedfrupro	Federal Fruit Products Co., Cleveland.
6030	flyfoon	Fly-Foon Chemical Co., Toledo, Ohio.
6050	franktea	Frank Tea & Spice Co., Cincinnati.
6056	friesan	Fries & Fries Co., Cincinnati, Ohio.
6063	fyrfyter	The Fyr-Fyter Co., Dayton, Ohio.
6073	fireoved	Fireoved & McGann, Springfield, Ohio.

7008	**gasson**	**J. E. Gasson, Kenton, Ohio.**
7028	gilmore	W. J. Gilmore Drug Co., Pittsburgh.
7032	glazo	Glazo Co., Cincinnati, Ohio.
7033	glucol	Glucol Mfg. Co., Cleveland, O.
7039	goodrich	The B. F. Goodrich Co., Akron, Ohio.
7043	gould	Geo. H. Gould & Son, Louisville, Ky.
7057	greever	Greever-Lotspeich Mfg. Co., Knoxville.
7060	grocuit	Grocers Biscuit Co., Louisville, Ky.
7062	guardian	Guardian Products Co., Inc., Miami, Fla.

8009	**halvangord**	**Hall-Van Gorder Co., Cleveland.**
8015	hardestine	Hardesty & Stineman, Pittsburgh, Pa.
8016	hardibros	Hardie Bros. Co., Pittsburgh, Pa.
8017	hardieco	Wm. M. Hardie Co., Cleveland, Ohio.
8020	harley	E. C. Harley Co., Dayton, Ohio.
8028	haun	Haun Drug Co., Akron, Ohio.
8032	hazeltine	Hazeltine & Perkins Drug Co., Grand Rapids, Mich.
8035	heekin	Heekin Co., Cincinnati, Ohio.
8038	hein	Hein Co., Pittsburgh, Pa.
8048	herren	Herren Candy Co., Atlanta, Ga.
8052	hickok	The C. F. Hickok Co., Sidney, Ohio.
8056	hildav	Hilton Davis Co., Cincinnati, Ohio.
8058	hogedav	Hoge Davis Drug Co., Wheeling, W. Va.
8061	holaline	Holland Aniline Dye Co., Holland, Mich.
8068	hoover	Chas. P. Hoover, Columbus, Ohio.
8093	hooff	The Hooff Chemical Co., Nashville.
8095	halestis	The Hale Justis Drug Co., Cincinnati.
8096	hypure	Hy-Pure Drug Lab., Cincinnati, Ohio.

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9007	**indruco**	**Independent Drug Co., Cincinnati.**
9033	interprop	International Proprietaries, Dayton.
10012	**jergena**	**Andrew Jergens Co., Cincinnati.**
10023	jorlmey	Johnson-Earl-Meyers, Pittsburgh, Pa.
10026	jolley	Jolley-Longfellow Pharmacal Co., Dayton, Ohio.
11003	**knuffmer**	**Kauffman-Lattimer Co., Columbus.**
11005	kellyco	Geo. A. Kelly Co., Pittsburgh, Pa.
11012	kencoco	Kentucky Color & Chem. Co., Louisville.
11019	keyfrupro	Keystone Fruit Prod. Co., Inc., Hamilton, Ohio.
11023	kingarry	Harry R. King Co., Louisville, Ky.
11034	klinker	Klinker Mfg. Co., Cleveland, Ohio.
11045	kratzer	Kratzer Ice Cream Co., Montgomery.
11048	kroger	Kroger Grocery & Baking Co., Cincinnati, Ohio.
11050	kuseyer	Kusen & Meyer, Pittsburgh, Pa.
12003	**lally**	**F. V. Lally, Wheeling, W. Va.**
12034	liebenthal	Liebenthal Bros., Cleveland, Ohio.
12041	limcola	Lime Cola Co., Montgomery, Ala.
12064	louchem	Louisville Chemical Works, Louisville.
12065	loulead	Louisville Lead & Color Co., Inc., Louisville, Ky.

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13000	**macndams**	**McAdams & Morford, Inc., Lexington, Ky.**
13016	**mackenzie**	**R. F. Mackenzie Co., Cleveland.**
13021	majestic	Majestic Supply Co., Columbus, Ohio.
13027	madell	Maple Dell Candy Co., Columbus, Ohio.
13029	marshall	H. G. Marshall Co., Newark, Ohio.
13030	mardruco	The Marshall Drug Co., Cleveland.
13037	massa	E. A. Massa, Atlanta, Ga.
13039	massengity	S. E. Massengill Co., Kansas City, Mo.
13039	massengill	S. E. Massengill Co., Bristol, Tenn.
13046	melitis	Meletis Mfg. Co., Pittsburgh, Pa.
13056	merrell	Wm. S. Merrell Co., Cincinnati, Ohio.
13058	messer	Ed. Messer Conf. Co., Cincinnati, Ohio.
13063	meyernard	F. A. Meyer, St. Bernard, Ohio.
13075	milson	Milson Co., Cincinnati, Ohio.
13086	momenee	Mr. Edward J. Momenee, Lima, Ohio.
13087	monarch	Monarch Mfg. Co., Atlanta, Ga.
13094	mooresan	Moores & Ross, Inc., Columbus, Ohio.
13106	mosby	Mosby Medicine Co., Cincinnati, Ohio.
13122	mudruco	Mutual Drug Co., Cleveland, Ohio.
13124	mutsupco	Mutual Supply Co., Cleveland, Ohio.
13130	mayborn	Mayborn Food Products, Cleveland.
14000	**naber**	**L. C. Naber Co., Cleveland, Ohio.**
14028	newman	Newman Pharmacal Co., Louisville.
14046	nowland	Geo. H. Nowland Co., Cincinnati, Ohio.
14048	nunnally	Nunnally Co., Atlanta, Ga.
14050	nuss	Nuss Confectionery Co., Cincinnati.
14054	norcargreen	The North Carolina Evergreen Co., Johnson City, Tenn.

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15001	**ohioconfeco**	**The Ohio Confection Co., Cleveland, Ohio.**
15002	ochispext	Ohio Spice & Extract Co., Toledo.
15003	ohivallco	Ohio Valley Drug Co., Wheeling, W. Va.
15013	orbroproco	Orr, Brown & Price Co., Columbus.
15014	oswald	Oswald & Taube Co., Cincinnati, Ohio.

16001	**paff**	**Paff Disinfectant Co., Sharon, Pa.**
16003	padaco	Page Dairy Co., Toledo, Ohio.
16007	paramount	Paramount Chemical Co., Columbus, Ga.
16009	parfay	Parfay Company, Louisville, Ky.
16024	peace	Peace Tobacco Co., Cincinnati, Ohio.
16028	peercuit	Peerless Biscuit Co., Pittsburgh, Pa.
16030	pemext	Penn Mfg. Co., Pittsburgh, Pa.
10023	pittfoco	Pittsburgh Food Prod. Co., Pittsburgh.
16067	procter	The Procter & Gamble Co., Cincinnati.
16074	purchemco	Puritan Chemical Co., Atlanta, Ga.
16075	purcamills	Puritan Cordage Mills, Louisville, Ky.
16076	pudruco	Puritan Drug Mfg. Co., Columbus, Ohio.
16089	pennext	Pennsylvania Mfgrs. & Ext. Co., Pittsburgh, Pa.

17001	**quest**	**Quest & Seamon Co., Louisville.**

18018	**remmers**	**Remmers Graham Soap Co., Cincinnati, Ohio.**
18021	rexoil	Rex Oil Co., N. S. Pittsburgh, Pa.
18022	reymer	Reymer & Bros., Inc., Pittsburgh, Pa.
18034	rigo	Rigo Mfg. Co., Nashville, Tenn.
18035	rippey	Wm. Rippey, Cincinnati, Ohio.
18046	roosliff	Roosa & Ratliff Chemical Co., Cincinnati, Ohio.
18048	roseweo	E. W. Rose Co., Cleveland, Ohio.
18050	roserat	Rose Rat Exterminator Co., Cincinnati.
18052	rossville	Rossville Co., Lawrenceburg, Ind.

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TERRITORY 2—Continued

18056	royamaco	Royal Manufacturing Co., Duquesne, Pa.
18058	royrexco	Royal Remedy & Extract Co., Dayton.
18060	rubflext	Ruby Flavoring Extract Co., Inc., Atlanta, Ga.
18062	runkelken	The Runkel Co., Kenton, Ohio.
18063	ruppman	Rupp & Bowman, Toledo, Ohio.
18068	royce	Abner Royce, Cleveland, Ohio.
18069	ryanton	Ryan Hampton Tobacco Co., Louisville.
18074	ricker	The Ricker 'Dobbin Co., Jacksonville, Fla.

19032	schuemann	Schuemann-Jones Co., Cleveland.
19043	selig	Selig Co., Inc., Atlanta, Ga.
19043	seligdall	Selig Company, Dallas, Texas.
19048	sharples	Sharples Solvents Corp., Charleston, W. Va.
19050	shelgum	Shelby Gum Company, Shelby, Ohio.
19054	sherwill	Sherwin-Williams Co., Cleveland.
19057	shipleyham	Shipley Massingham Co., Pittsburgh.
19071	smile	Smile Syrup Co., Macon, Ga.
19072	smithanco	Geo. E. Smith & Co., Loveland, Ohio.
19084	smiflaexo	Smith's Flavoring Extract Co., Grand Rapids, Mich.
19085	smitcott	Smith & Scott Tobacco Co., Paducah, Ky.
19100	spangler	Spangler Candy Co., Bryan, Ohio.
19104	speer	J. M. Speer & Co., Pittsburgh, Pa.
19113	standrug	Standard Drug Co., Cleveland, Ohio.
19119	standley	Standley Extract Remedy Co., Springfield, Ohio.
19124	starks	Starks & Co., Midway, Ky.
19131	sterling	Sterling Prod. Inc., Wheeling, W. Va.
19134	stifel	J. L. Stifel & Sons, Wheeling, W. Va.
19140	strietmann	Strietmann Biscuit Co., Cincinnati.
19141	stroncobb	Strong, Cobb & Co., Cleveland, Ohio.
19144	styron	Styron-Beggs Co., Newark, Ohio.

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20008	**templegard**	**Temple Garden Tea Co., Atlanta.**
1020	allied	Thatcher Medicine Co., Chattanooga.
20016	thyogen	The Thyogen Co., Cleveland, Ohio.
20024	toledrex	Toledo Rex Spray Co., Toledo, Ohio.

21004	**unibocc**	**Union Bottling Co., Chattanooga.**

22000	**valdosta**	**Valdosta Bottlg. Works, Valdosta.**
22011	veebee	The V. B. Corporation, Pittsburgh, Pa.
22022	vogeler	Alfred Vogeler Drug Co., Cincinnati.

23008	**walkimar**	**Walding, Kinnan & Marvin Co., Toledo, Ohio.**
23022	warrenteed	Warren-Teed Products Co., Columbus, Ohio.
23029	webb	Webb Mfg. Co., Nashville, Tenn.
23032	weidman	Weideman Co., Cleveland, Ohio.
23035	wendtol	Wendt Bristol Co., Columbus, Ohio.
23038	westerfield	Westerfield Pharmacal Co., Dayton.
23053	whitemical	White Chemical Co., Louisville, Ky.
23057	whitmer	H. C. Whitmer Co., Columbus, Ind.
23059	widlar	Widlar Co., Cleveland, Ohio.
23062	eureka	Eureka Products Co., Louisville, Ky.
23078	wolverine	Wolverine Spice Co., Grand Rapids.
23081	woolfolk	J. W. Woolfolk Co., Ft. Valley, Ga.
23082	wooten	Wooten Insecticide Co., Atlanta, Ga.
23091	westerve	Western Reserve University, Cleveland.
23094	walkerinc	W. & H. Walker, Inc., Pittsburgh, Pa.

26004	**zemmer**	**The Zemmer Co., Pittsburg, Pa.**
26007	zipp	Zipp Extract Co., Los Angeles, Calif.
26008	zippland	Zipp Mfg. Co., Cleveland, Ohio.

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TERRITORY 3

1003	**abercreamm**	**Aberdeen Cream. Co., Aberdeen, Miss.**
1033	amerbut	American Butter Co., Kansas City, Mo.
1068	armour	Armour & Co., Chicago, Ill.
1068	armatello	Armour Creameries, Pocatello, Idaho.
1068	armoroch	Armour Creameries, Rochester, Ind.
1068	armoterr	Armour Creameries, Terre Haute, Ind.
1068	armoworth	Armour Creameries, Worthington, Ind.
1068	armocres	Armour Creameries, Creston, Ia.
1068	armoden	Armour Creameries, Denison, Ia.
1068	armordes	Armour Creameries, Des Moines, Ia.
1068	armowin	Armour Creameries, Winfield, Kans.
1068	armomar	Armour Creameries, Marysville, Kans.
1068	armolou	Armour Creameries, Louisville, Ky.
1068	armoman	Armour Creameries, Mankato, Minn.
1068	armojack	Armour Creameries, Jackson, Miss.
1068	armomeri	Armour Creameries, Meridian, Miss.
1068	armosprin	Armour Creameries, Springfield, Mo.
1068	armomil	Armour Creameries, Miles City, Mont.
1068	armobis	Armour Creameries, Bismarck, N. D.
1068	armofar	Armour Creameries, Fargo, N. D.
1068	armomin	Armour Creameries, Minot, N. D.
1068	armoen	Armour Creamery, Enid, Okla.
1068	armohob	Armour Creameries, Hobart, Okla.
1068	armowood	Armour Creameries, Woodward, Okla.
1068	armoeau	Armour Creameries, Eau Claire, Wisc.

2032	**beatrice**	**Beatrice Creamery Co., Topeka.**
2032	beatricinn	Beatrice Creamery Co., Cincinnati.
2040	belle	Belle Meade Butter, Memphis, Tenn.
2044	benotta	Bennett Creamery Co., Ottawa, Kans.
2046	benson	Benson Creamery Co., Decatur, Ill.
2048	berjens	Berjens Milk Co., St. Louis, Mo.
2091	bridgeman	Bridgemen-Russell Co., Duluth, Minn.
2133	bessirky	Bessire & Co., Louisville, Ky.

3019	**carthage**	**Carthage Creamery Co., Carthage, Mo.**
3021	catawba	Catawba Creamery Co., Hickory, N. C.
3063	church	Church's Creamery, Peoria, Ill.

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3065	cimarron	Cimarron Valley Creamery Co., Guthrie.
3080	climax	Climax Creamery Co., Shawnee, Okla.
3082	cloverdale	Cloverdale Creamery, Johnson City, Tenn.
3083	clovery	Clover Farm Dairy Co., Memphis, Tenn.
3084	cloverland	Cloverland Creameries, Inc., Decatur, Ind.
3086	cobbery	R. E. Cobb Co., St. Paul, Minn.
3121	cotcream	Cottage Creamery Co., Cleveland, Ohio.
3122	cotcreamor	Cottage Creamery Co., Orrville, Ohio.
3128	crescream	Crescent Creamery Co., St. Paul, Minn.
3148	crawford	Crawford County Creamery, Pittsburg, Kans.
4010	**davleaver**	**Davis-Cleaver Prod. Co., Quincy.**
4019	decoursey	DeCoursey Creamery Co., Kansas City, Kans.
4020	decourwich	De Coursey Creamery Co., Wichita.
4026	desoto	De Soto Creamery & Produce Co., Minneapolis, Minn.
4037	dike	Dike Creamery Co., Dike, Ia.
4054	ducrepro	Duluth Creamery & Produce Co., Duluth, Minn.
5038	**evpumil**	**Evansville Pure Milk Co., Evansville, Ind.**
6000	**fairfield**	**Fairfield Cream. Co., Columbus, O.**
6001	faircreco	Fairmont Creamery Co., Pittsburgh, Pa.
6009	faccry	Farmers Equity Co-Oper. Creamery, Orleans, Nebr.
6011	faruco	Farmers Union Co-Op. Creamery, Kansas City, Mo.
6012	farmont	Farmers' Union Co-Oper. Creamery, Fremont, Nebr.
6023	findlay	Findlay Dairy Co., Inc., Findlay, Ohio.

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TERRITORY 3—Continued

6040	fortmadry	Fort Madison Creamery Co., Fort Madison, Ia.
6046	frankco	Franklin County Creamery Association, Winchester, Tenn.
6047	frankry	Franklin Creamery Co., Toledo, Ohio.
6048	francream	Franklin Ice Cream Co., Kansas City, Mo.
6052	freeses	Geo Freese's Sons, Fostoria, Ohio.
6053	frenchbaur	French Bros.-Bauer Co., Cincinnati.
6059	fuller	Fuller Creamery, Lawton, Okla.
7047	grilereco	Grand Island Creamery Co., Grand Island, Nebr.
7073	gograbut	Golden Grain Butter Co., Cape Girardeau, Mo.
8011	hamblenan	Hamblen & Greene Counties Cream. Co., Morristown, Tenn.
8030	hawick	Hawik Creamery Co., Hawick, Minn.
8062	hollycream	The Hollywood Creamery Co., Colorado Springs, Colo.
9009	indice	Indiana Ice & Dairy Co., Anderson, Ind.
9011	indiprod	The Indiana Produce Co., Huntingburg, Ind.
9024	iolamery	Iola Creamery Co., Iola, Kans.
9028	isaly	Isaly Dairy Co., Marion, Ohio.

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10013	**jerome**	**E. L. Jerome Creamery Co., Pierce City, Mo.**
10022	jocreco	Johnson Creamery Co., Bloomington, Ind.
10031	jesanery	E. L. Jerome's Sanitary Creamery, Monett, Mo.
11011	**kentkacee**	**C. W. Kent, Kansas City, Mo.**
11013	kernsee	Mr. C. E. Kerns, c/o Southern Creamery Co., Muskogee, Okla.
11028	kinimouth	A. S. Kinimouth Produce Co., Winfield, Kans.
1103	kirschbraun	Kirschbraun & Sons, Inc., Omaha.
1104	kosciusko	Kosciusko Cream., Kosciusko, Miss.
12023	**leich**	**Chas. Leich & Co., Evansville, Ind.**
12045	litchairy	Litchfield Dairy Assn., Litchfield, Mich.
12054	londery	London Creamery Co., London, Ohio.
12055	longco	J. A. Long Co., Union City, Ind.
13013	**macleans**	**McLeansboro Creamery, McLeansboro, Ill.**
13041	**matthews**	**Matthews Selected Dairies Co., Cincinnati, Ohio.**
13050	mercreco	Merchants Creamery Co., Springfield, Mo
13051	mercrecinn	Merchants Creamery Co., Cincinnati.
13055	meriden	Meriden Creamery Co., Kansas City, Mo
13057	merrweir	Merritt-Schweir, Great Bend, Kans.
13069	miprodaco	Michigan Prod. Dairy Co., Adrian, Mich

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TERRITORY 3—Continued

13071	midbuco	Midwest Butter Co., Inc., St. Joseph, Mo.
13073	millmaid	Miller Maid Creamery, Ft. Worth.
13083	mistletoe	Mistletoe Creamery, Ft. Worth, Texas.
13084	mistlesan	Mistletoe Creameries, San Antonio.
13100	mornglory	Morning Glory Creamery Co., Memphis.
13101	morglonash	Morning Glory Creameries, Nashville.
13110	mountain	Mountain Grove Creamery, Mountain Grove, Mo.
13133	mucreco	Mutual Creamery Co., Salt Lake City.
14001	**nances**	**Nances Creamery, Brazil, Ind.**
14002	napumco	Nashville Pure Milk Co., Nashville.
14036	nacreco	North American Creamery Co., Paynesville, Minn.
15022	**owatonna**	**Owatonna Creamery, Owatonna, Minn.**
16032	**pepairy**	**Peoples Dairy Co., Akron, Ohio.**
16033	peocroco	Peoria Creamery Co., Peoria, Ill.
10650	piercery	Pierce City Creamery Co., Pierce City, Mo.
16053	pionery	The Pioneer Creamery Co., Champaign, Ill.
16072	pucreco	Pure Cream Products Co., Tell City, Ind.
16078	purproco	Puritan Products Co., Enid, Okla.
16086	pattonco	Patton Creamery Co., Springfield, Mo.
18037	**robbosa**	**Robb Rosa Co., Sioux City, Ia.**
18044	rohan	Andrew Rohan Co., Cincinnati, Ohio.

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19049	**shawbros**	**Shaw Bros. Creamery Co., Fort Worth, Texas.**
19052	shepherd	Shepherd Dairy Co., St. Louis, Mo.
19092	soucream	Southern Creameries, Nashville, Tenn.
19093	soutex	Southern Creameries, Texarkana, Tex.
19095	soubutt	Southern Butter Co., Muskogee, Okla.
19108	stamper	F. M. Stamper Co., Moberly, Mo.
19123	stark	Molly Stark Creamery Co., Canton, O.
19125	starr	Starr Bros. Creamery, Mt. Vernon, Ill.
19146	sugream	Sugar Creek Creamery, Danville, Ill.
19149	summitt	Summit City Creamery, Aurora, Mo.
19151	sumner	Sumner Creamery Co., Akron, Ohio.
19152	sumnerton	Sumner Creamery Co., Canton, Ohio.
19154	sunlight	Sunlight Creameries, Washington Court, Ohio.
19155	sunlipro	Sunlight Produce Co., Sioux City, Ia.
19156	sunproco	Sunlight Product Co., Neosho, Mo.
19165	swiftwell	Swift & Co., Creamery, Caldwell, Ida.
19165	swiftbush	Swift & Co., Produce Plant, Bushnell, Ill.
19165	swiftatur	Swift & Co., Produce Plant, Decatur, Ill.
19165	swiftville	Swift & Co., Produce Plant, Jacksonville, Ill.
19165	swirtvern	Swift & Co., Mt. Vernon, Ill.
19165	swiftvans	Swift & Co., Produce Plant, Evansville, Ind.
19165	swiftinda	Swift & Co., Produce Plant, Clarinda, Ia.
19165	swifton	Swift & Co., Produce Plant, Clinton, Ia.
19165	swiftest	Swift & Co., Produce Plant, Creston, Ia.
19165	swiftoines	Swift & Co., Produce Plant, Des Moines, Ia.
19165	swiftkuk	Swift & Co., Produce Plant, Keokuk, Ia.
19165	swiftwa	Swift & Co., Produce Plant, Ottumwa, Ia.
19165	swiftenter	Swift & Co., Produce Plant, Clay Center, Kans.
19165	swiftinson	Swift & Co., Hutchinson, Kans.
19165	swiftpars	Swift & Co., Produce Plant, Parsons, Kans.
19165	swiftita	Swift & Co., Produce Plant, Wichita, Kans.
19165	swiflex	Swift & Co., Lexington, Ky.
19165	swiftillac	Swift & Co., Produce Plant, Cadillac, Mich.
19165	swiftings	Swift & Co., Produce Plant, Billings, Mont.

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TERRITORY 3—Continued

19165	swiftcothe	Swift & Co., Product Plant, Chillicothe, Mo.
19165	swiftalia	Swift & Co., Produce Plant, Sedalia.
19165	swiftfield	Swift & Co., Produce Plant, Springfield, Mo.
19165	swiftenton	Swift & Co., Produce Plant, Trenton, Mo.
19165	swiftrice	Swift & Co., Beatrice, Nebr.
19165	swiftbus	Swift & Co., Produce Plant, Columbus, Nebr.
19165	swiftlint	Swift & Co., Produce Plant, Clinton, Okla.
19165	swiftnid	Swift & Co., Enid, Okla.
19165	swifthoma	Swift & Co., Produce Plant, Oklahoma City, Okla.
19165	swiftnash	Swift & Co., Produce Plant, Nashville.
19165	swiftworth	Swift & Co., North Ft. Worth, Texas.
19177	schultz	Paul A. Schultz Co., St. Louis, Mo.
20006	**taylorpro**	**Taylor Prod. Co., Jackson, Mich.**
20009	tennvalery	Tennessee Valley Creamery Co., Knoxville, Tenn.
20020	tiptopery	Tip Top Cream. Co., Vincennes, Ind.
20036	turnery	Turner Creamery Co., Mitchell, S. D.
23004	**wadley**	**Wadley Co., Indianapolis, Ind.**
23004	wadleaute	Wadley Co., Terre Haute, Ind.
23030	webery	J. Weber Dairy Co., Cincinnati, Ohio.
23041	wesdairco	Western Dairy & Ice Cream Co., St. Joseph, Mo.
23044	westhioco	Western Ohio Creamery Co., Greenville, Ohio.
23046	westerville	Westerville Creamery Co., Covington, Ohio.
23056	whimoco	White Mountain Dairy Co., Lima, Ohio.
23066	willspring	Willow Springs Creamery Co., Willow Springs, Mo.

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25000	yalobusha	Yalobusha Co-Operative Creamery, Water Valley, Miss.
26001	zanery	Zanesville Creamery Co., Zanesville, Ohio.

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1001	abbott	**The Abbott Lab., North Chicago,**
1005	acme	Acme Chem. Co., Milwaukee, Wis.
1006	accrac	Acme Cracker Co., Chicago, Ill.
1010	adlerika	Adlerika Co., St. Paul, Minn.
1034	amcan	American Candy Co., Milwaukee, Wis.
1038	amdrug	American Drug & Chemical Co., Minneapolis, Minn.
1044	amlic	American Licorice Co., Chicago, Ill.
1046	amshopol	American Shoe Polish Co., Chicago, Ill.
1062	arabol	Arabol Mfg. Co., Cicero, Ill.
1063	arbuckle	Arbuckle Bros., Chicago, Ill.
2004	bakelite	**Bakelite Corp., Chicago, Ill.**
2024	basic	Basic Sanitary Products Co., Chicago.
2042	benjamin	I. Benjamin, Chicago, Ill.
2056	biscrax	Biscuit & Cracker Mfg. Co., Chicago.
2079	boyer	Boyer Chemical Lab., Chicago, Ill.
2080	brach	E. J. Brach & Sons, Chicago, Ill.
2085	brechet	Brechet & Richter Co., Minneapolis.
2091	bridgeman	Bridgeman-Russell Co., Duluth, Minn.
2105	brunsbalke	Brunswick-Balke-Collender Co., Chicago.
2106	brunswick	Brunswick Tablet Co., Chicago, Ill.
2108	budwine	Budwine Bottling Works, Chicago, Ill.
2115	bunte	Bunte Bros., Chicago, Ill.
2125	byman	Louis Byman, Chicago, Ill.
2134	blocki	John Blocki & Son, Chicago, Ill.
3000	cable	**Cable Chemical Works, Chicago.**
3001	calbev	California Beverage Co., Chicago, Ill.
3006	campana	Campana Corp., Batavia, Ill.
3020		Cash Sales
3026	cenol	Central City Chem. Co., Chicago, Ill.
3029	centraprod	Central Products Co., Chicago, Ill.
3030	centscico	Central Scientific Co., Chicago, Ill.
3038	chapman	Chapman & Smith Co., Chicago, Ill.
3040	checker	Checker Beverage Co., Chicago, Ill.
3053	chirose	Chicago White Rose Bottling Works, Chicago, Ill.
3054	childrug	Childs Drug Co., Chicago, Ill.
3056	chloramix	Chloramix Co., Chicago, Ill.
3064	cicbot	Cicero Bottling Works, Cicero, Ill.

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3079	cleanwell	Cleanwell Mfgr's. & Distributors Co., Chicago, Ill.
3110	conwaf	Consolidated Wafer, Chicago, Ill.
3123	crajackco	Cracker Jack Co., Chicago, Ill.
3137	curtiss	Curtiss Candy Co., Chicago, Ill.
3146	chifried	Chicago Cream Fried Cake Co., Chicago.

4005	daviscuit	Davidson Biscuit Co., Mt. Vernon, Ill.
4012	dayberg	Day-Bergwall Co., Milwaukee, Wis.
4015	dean	Clyde Dean Ink Co., Chicago. Ill.
4024	depree	De Pree Co., Holland, Mich.
4025	deshell	DeShell Laboratories, Chicago, Ill.
4032	dewitt	E. C. DeWitt & Co., Chicago, Ill.
4035	diamond	Diamond Ink Co., Milwaukee, Wis.
4041	dohmen	F. Dohmen & Co., Milwaukee, Wis.
4046	dougbot	Douglas Bottling Co., Chicago, Ill.

5000	eagle	Eagle Chemical Co., Milwaukee.
5012	econfuse	Economy Fuse & Mfg. Co., Chicago.
5021	elines	Elines, Inc., North Milwaukee, Wis.
5033	enozco	Enoz Chemical Co., Chicago, Ill.

6007	fargfood	Fargo Food Prod. Co., Fargo, N. D.
6017	fedfood	Federal Pure Food Co., Chicago, Ill.
6021	ficks	Ficks Shoe Polish Co., Chicago, Ill.
6022	fiebing	Fiebing Chemical Co., Milwaukee, Wis.
6027	flavo	Flavo Products Co., Chicago, Ill.
6033	foomaco	Food Materials Corp., Chicago, Ill.
6045	franco	Franco American Co., Chicago, Ill.
6060	funcke	Jos. B. Funke Co., La Crosse, Wis.
6062	furstness	Furst-McNess Co., Freeport, Ill.

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TERRITORY CH—Continued

7034	goodgam	**Goodrich-Gamble & Co., St. Paul.**
7037	goldstein	David Goldstein, Chicago, Ill.
7053	grapteco	Great Atlantic & Pacific Tea Co., Chicago, Ill.
7066	getsit	Gets-It Inc., Chicago, Ill.
7069	granzow	Frank Granzow, Chicago, Ill.

8010	halsey	**Halsey Bros. Co., Chicago, Ill.**
8032	hazeltine	Hazeltine & Perkins Drug Co., Grand Rapids, Mich.
8039	hekman	Hekman Biscuit Co., Grand Rapids.
8040	heller	B. Heller & Co., Chicago, Ill.
8061	holaline	Holland Aniline Dye Co., Holland.
8078	hudson	Hudson Mfg. Co., Chicago, Ill.
8081	huntington	Huntington Lab., Inc., Huntington, Ind.
8085	hutchinson	W. H. Hutchinson & Co., Chicago.

9004	imunex	**Immune Exterminating & Prod. Corp., Minneapolis, Minn.**
9018	inharco	International Harvester Co., Chicago.
9020	inlineco	International Linoleum Cement Co., Chicago, Ill.

10002	jacksank	**Frank Jackson Co., Chicago, Ill.**
10010	jellywalt	Walter H. Jelly & Co., Chicago, Ill.
10017	joannes	Joannes Bros. Co., Green Bay, Wis.
10024	johnston	Robert A. Johnston Co., Milwaukee.

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11029	**kirkaneo**	**Jas. S. Kirk & Co., Chicago.**
11031	kakaflav	K. & K. Flavoring Co., Chicago, Ill.
11033	klenocide	The Klen-o-cide Co., Chicago, Ill.
11038	kochs	Dr. Koch Vegetable Tea Co., Winona, Minn.
11040	kohnstachi	H. Kohnstamm & Co., Chicago, Ill.
11047	kremuro	Kremers-Urban Co., Milwaukee, Wis.
11051	kusto	The Kusto Co., Chicago, Ill.

11025	**ladwig**	**Ladwig-Schlueter, Milwaukee.**
12002	lagranpro	La Grange Products Co., La Grange, Ill.
12008	lanair	Lanair Co., Chicago, Ill.
12010	lange	The Lange Co., De Pere, Wis.
12017	lavoris	Lavoris Chemical Co., Minneapolis.
12044	liquicarbo	Liquid Carbonic Co., Chicago, Ill.
12048	lockwood	Lockwood Lab., Hammond, Ind.
12053	lomax	Lomax Co., Chicago, Ill.
12056	longed	Ed. Long Chemical Co., Chicago, Ill.
12068	lowjoe	Joe Lowe Co., Chicago, Ill.
12075	luederitz	Chas. Luederitz, Milwaukee, Wis.
12076	luederchi	Geo. Lueders & Co., Inc., Chicago, Ill.
12079	lyon	C. B. Lyon & Bro., Inc., St. Paul.

13004	**maeconnon**	**McConnon & Co., Winona, Minn.**
13007	macurdy	Dwight B. McCurdy Co., Chicago, Ill.

13040	**massey**	**Massey & Massey Co., Chicago.**
13052	mercantile	Merchants Mercantile Co., Duluth.
13067	michcospi	Michigan Coffee & Spice Co., Menominee, Mich.
13088	montague	W. R. Montague Co., LaCrosse, Wis.
13097	morgence	Clarence Morgan & Co., Chicago, Ill.
22021	melba	Melba Mfg. Co., Chicago, Ill.

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14007	**nachemco**	**National Chem. Mfg. Co., Chicago.**
14030	newport	Newport Co., Carrolville, Wis.
14040	norwextra	Northwestern Extract Co., Milwaukee.
14041	norsansuco	Northwestern Sanitary Supply Co., St. Paul, Minn.
14047	noyesbros	Noyes Bros. & Cutler, Inc., St. Paul.

15018	**overcanco**	**Overland Candy Corp., Chicago.**
15019	overton	Overton Hygienic Mfg. Co., Chicago.

7058	**purities**	**Purity Bakeries Corp., Chicago.**
16004	palmcand	Palmer Candy Co., Sioux City, Ia.
16016	pasch	Frank F. Pasch, Milwaukee, Wis.
16031	penrith	Penrith Akers Mfg. Co., Minneapolis.
16041	pfister	Pfister & Vogel Leather Co., Milwaukee.
16048	phychemco	Physicians Chem. & Drug Co., Chicago.
16060	polonia	Polonia Bottling Works, Chicago, Ill.

18003	**ranbevco**	**Rand Beverage Co., Chicago, Ill.**
18007	rawleigh	W. T. Rawleigh Co., Freeport, Ill.
18016	reliboco	Reliable Bottling Co., Chicago, Ill.
18017	relipaco	Reliable Paste Co., Chicago, Ill.
18020	rexford	Rexford Paper Co., Milwaukee, Wisc.
18036	riviera	Riviera Prod. Co., Chicago, Ill.
18039	roberproco	Theo. B. Robertson Prod. Co., Chicago.
18049	rosratex	Rose Rat Exterminator Co., Chicago.
18055	roymaco	Royal Mfg. Co., Chicago, Ill.
18065	ryaboco	Ryan Bottling Works, Chicago, Ill.
18076	ruth	Ruth Chemical Works, Chicago, Ill.

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19018	**savoy**	**Savoy Drug & Chem. Co., Chicago.**
19025	ladwig	Ladwig-Schlueter, Milwaukee, Wis.
19028	schmitt	Schmitt Bros. Tobacco Works, Milwaukee, Wis.
19029	scholl	Scholl Mfg. Co., Chicago, Ill.
19031	schranck	H. C. Schranck Co., Milwaukee, Wis.
19033	schulze	Paul Schulze Biscuit Co., Chicago, Ill.
19034	schust	Schust Company, Saginaw, Mich.
19039	searle	G. D. Searle & Co., Chicago, Ill.
19042	seguin	C. A. Seguin Co., Chicago, Ill.
19044	semrad	Semrad Chemical Co., Chicago, Ill.
19045	sethness	Sethness Co., Chicago, Ill.
19046	sexton	John Sexton & Co., Chicago, Ill.
19059	shoops	Dr. Shoop's Lab., Inc., Racine, Wis.
19061	shurgloss	Shur Gloss Mfg. Co., Chicago, Ill.
19084	smithflav	Smith's Flavoring Extract Co., Grand Rapids, Mich.
19087	solie	Solie Mfg. Co., Minneapolis, Minn.
19090	sobewho	South Bend Wholesale Drug Co., South Bend, Ind.
19114	stanink	Standard Ink Co., Chicago, Ill.
19120	stange	Wm. J. Stange Co., Chicago, Ill.
19158	susanka	Wm. A. Susanka, Chicago, Ill.
19165	swift	Swift & Co., Chicago, Ill.
19183	sunsetco	Sunset Products Co., Chicago, Ill.

20014	**thomtaylor**	**Thompson & Taylor Spice Co., Chicago, Ill.**
20037	twinext	Twin City Exterminating Co., Inc., St. Paul, Minn.

21016	**usowaco**	**United States Soda Water & Soft Drink Co., Chicago.**
21019	unthecon	Universal Theatres Concession, Chicago.

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TERRITORY CH—Continued

22007	**vanschaack**	**Peter Van Schaack & Co., Chicago, Ill.**
22016	victruit	Victory Fruit Products Co., Chicago, Ill.
23014	**wander**	**The Wander Co., Chicago, Ill.**
23026	watkins	J. R. Watkins Co., Winona, Minn.
23042	wesdry	Western Dry Color Co., Chicago, Ill.
23045	wesolvents	Western Solvents Mfg. Co., Chicago.
23051	wheelarnes	Wheeler-Barnes Co., Minneapolis, Minn.
23054	whitehall	Dr. Whitehall Megrimine Co., South Bend, Ind.
23067	willsolab	Willson Bros. Monarch Lab., Edgerton, Wis.
23074	wishago	Wishnick-Tumpeer, Inc., Chicago, Ill.
23078	wolverice	Wolverine Spice Co., Grand Rapids.
23083	wrisley	Allen B. Wrisley Co., Chicago, Ill.
23092	whitowoc	H. Kirk White & Co., Oconomowoc, Wis.
24000	**xtermx**	**Xtermx Fumigators, Chicago, Ill.**
26006	**zion**	**Zion Institutions & Ind., Zion, Ill.**

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1072	**associated**	**Associated Oil Co., San Francisco.**
2058	**bishop**	**Bishop & Co., Los Angeles, Calif.**
2068	blumauer	Blumauer-Frank Drug Co., Portland, Ore.
2073	boldeman	Boldeman Choc. Co., San Francisco.
2083	braunecht	Braun, Knecht, Heiman Co., San Francisco, Calif.
2107	buckeye	Buckeye Extract Co, Olympia, Wash.
3002	**calink**	**California Ink Co., Inc., West Berkeley, Calif.**
3003	caldres	California Leather Dressing Co., San Francisco, Calif.
3005	calrex	California Rex Spray Co., Benicia, Cal.
3051	chew	E. H. Chew Co., Los Angeles, Calif.
3085	cluff	Wm. Cluff Mfg. Co., San Francisco.
3089	coffin	Coffin-Redington Co., San Francisco.
3100	comdist	Commercial Disinfect. Co., Los Angeles.
3130	crescentco	Crescent Mfg. Co., Seattle, Wash.
3134	crutcher	D. E. Crutcher Co., San Francisco.
3139	calmedwico	California Medical Wine Co., Los Angeles, Calif.
4022	**demartini**	**L. Demartini Supply Co., San Francisco, Calif.**
4051	dry	Mary Dry Candy Co., San Francisco.
4053	dugan	H. F. Dugan Co., San Francisco, Cal.
4066	drucker	Aug. E. Drucker, San Francisco, Cal.

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5032	**engskell**	**Eng-Skell Co., San Francisco.**

6005	**famo**	**The Famo Nut Co., Los Angeles.**
6006	famonut	Famo Nut Co., San Francisco, Calif.
6010	farunion	The Farmers Union, San Jose, Calif.

7012	**gencandy**	**General Candy Co., San Francisco.**
7020	germo	Germo Mfg. Co., Los Angeles, Calif.
7022	getz	M. Getz & Co., San Francisco, Calif.
7030	gimbal	Gimbal Bros., San Francisco, Calif.
7051	grayco	Gray Mfg. Co., Spokane, Wash.
7052	grapercy	Gray, McLean & Percy, Portland, Ore.
7063	guitlard	Guitlard Choc. Co., San Francisco.

8000	**haasruch**	**Haas Baruch Co., Los Angeles.**
8007	hallifax	Hallifax Bros. Co., Sacramento, Calif.
8012	hamufact	Hamilton Mfg. Co., Seattle, Wash.
8024	harrower	The Harrower Lab., Glendale, Cal.
8057	hirshbros	Hirsch Bros. Co., Inc., San Francisco.
8094	hockwald	Hockwald Chem. Co., San Francisco.
8060	hollamin	Benjamin Holland, Seattle, Wash.
8063	honcream	Honey Cream Cake Co., Los Angeles.

9005	**impcaco**	**Imperial Candy Co., Seattle.**
9026	irvine	The Irvine Co., Oakland, Calif.

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10018	**joancorp**	**Joannes Corp., Los Angeles.**
11000	**kahnbeco**	**Kahn Beck Co., Los Angeles.**
11025	kingexco	King Extract Co., San Francisco, Calif.
12011	**langley**	**Langley & Michaels Co., San Francisco, Calif.**
12021	leegreef	Lee-Greefkens Co., San Francisco, Calif.
12024	leinen	John F. Leinen Chem. Co., San Francisco, Calif.
12068	lowlos	Joe Lowe Co., Los Angeles, Calif.
13003	**maclellan**	**C. A. McClellan Co., Los Angeles.**
13019	**magfrupro**	**Magnus Fruit & Prod. Co., San Francisco, Calif.**
13031	marcamm	Martin-Camm Co., San Francisco.
13033	martne	Martin, Hoyt & Milne, San Francisco.
13115	munsons	Munson's San Jose, Calif.
14023	**nesbitt**	**Nesbitt Fruit Prod. Co., Los Angeles, Calif.**
14044	novermo	No Vermo Mfg. Co., Los Angeles.

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12021	**parafooco**	**Paramount Food Prod. Corp., San Francisco, Calif.**
16039	pfaltz	Pfaltz & Bauer, San Francisco, Calif.
18009	**raymond**	**The Raymond Co., San Francisco.**
18013	regafoco	Regal Food Products Co., Los Angeles.
18029	richand	Richardson & Holland, Inc., Seattle.
18032	rieger	Paul Rieger Co., San Francisco, Calif.
18033	riesener	Riesener Choc. Co., San Francisco.
18066	ryason	Ryan Richardson Co., Los Angeles.
18075	rogers	R. R. Rogers Chem. Co., San Francisco.
19063	**sierra**	**Sierra Ice Cream Co., Fresno, Cal.**
19073	smithland	Geo. S. Smith, Oakland, Calif.
19096	socaldisco	Southern Calif. Disin. Co., Los Angeles.
19097	socalsupco	Southern Calif. Sup. Co., Los Angeles.
19116	standia	Standard Oil Co. of California, San Francisco, Calif.
19133	stewolmes	Stewart & Holmes Drug Co., Seattle.
19147	suproco	Sugar Products Co., Los Angeles.
19157	superl	Superl Mfg. Co., Los Angeles, Calif.
19168	shumates	Shumates Drug Co., San Francisco.
19180	swiproco	Swift Products Co., Los Angeles.
20001	**talbot**	**Talbot Mfg. Co., Los Angeles.**
20003	tasty	Tasty Prod. Co., Los Angeles, Calif.
20029	trublu	Tru Blu Biscuit Co., Portland, Ore.
20030	trublukan	Tru Blu Biscuit Co., Spokane, Wash.
20038	tylerson	S. H. Tyler & Son, San Francisco.
20043	tacocery	Tacoma Groc. Co., Inc., Tacoma, Wash.

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21018	**unifiav**	**Universal Flavoring & Syrup Co., Oakland, Calif.**
3139	**vai**	**Vai Bros., Los Angeles, Calif.**
23008	**wadhams**	**Wadhams & Co., Portland, Ore.**
23007	wait	Geo. Z. Wait Co., Sacramento, Calif.
23087	wyss	Wyss Mfg. Co., San Francisco, Calif.
25008	**yotrubis**	**Yours Truly Biscuit Co., Seattle.**
26007	**zipp**	**Zipp Extract Co., Los Angeles.**

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Minnesota

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