September 23, 1975

Dr. E. L. Simons
General Electric Company
One River Road
Schenectady, New York 12345

Dear Ed:

I was recently given a copy of an undated open letter from General Electric Company to its electric utility customers. This letter attempts to inform your customers of the proper handling and disposal of Pyranol.

Monsanto has recently issued current information which we hope is being forwarded to the appropriate individuals in your company. I am attaching copies of this information.

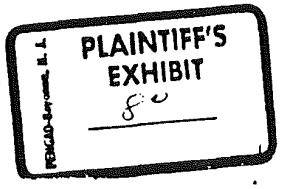
Can your office assist us in conveying this message throughout the General Electric organization?

Sincerely,

W. B. Papageorge
Manager, Product Acceptability
Specialty & Process Chemicals

WBP:pd

Attachment



IDS 002659

WATER_PCB-SD0000001947

GENERAL ELECTRIC COMPANY

ONE RIVER ROAD, SCHENECTADY, NEW YORK 12305 . . . TELEPHONE 518 FRanklin 4-2211

AGENCY AND DISTRIBUTOR SALES OPERATION

May 11, 1970

TO: AGENTS AND DISTRIBUTORS:

Gentlemen:

Attached is a copy of our general letter to those utilities and industrials whose names are on our mailing list.

Please read these letters, and if you have any question call your A&D sales engineer.

We would appreciate it if you would send a copy of one of these general letters to any of your customers whom you think we may not have reached by our mailing.

Very truly yours,

R. F. Quinn

RFQ:LMB

attach.

R. F. Quinn, Manager
National Sales
Electric Utility Market

Distribution:

Independents - A-66, Code 11E
Graybar - A-67, Codes 11C, 11D, 11E
GESCo - A64, Tabs 1A, 2A and 3A
Grant Umberger, GESCo, 1260 Boston Avenue, Bridgeport, Connecticut
RB Buffinton, Graybar Electric Company, 420 Lexington Avenue, New York City
NT Bronson, Graybar Electric Company, 420 Lexington Avenue, New York City

Note: Messrs. Umberger, Bronson and Buffinton should receive six copies.

IDS 002660

WATER_PCB-SD0000001948

GENERAL ELECTRIC
COMPANY
P.O. BOX 910
MERIDEN, CONN. 06450

INDUSTRIAL
SALES
DIVISION

Open Letter to Industrial Customers:

We are not able to be certain from our records whether or not you have in the past purchased from us electrical apparatus containing Pyranol, an askarel liquid dielectric. If you have not, there is no need for you to be further concerned with the contents of this letter, but if you have, you will find the following to be of importance. In the event you have purchased such equipment from us and have resold it, you may wish to bring this information to the attention of your customers.

As you are well aware, the public concern with pollution is rapidly escalating. As time goes on, it can be expected to reach out to affect more and more materials that are even suspect of being potential pollutants and contaminants of the environment. Recently there have been indications that polychlorbiphenyls have been found at some points in marine, aquatic, and wildlife environments. While quantities are relatively small, it is a matter of growing concern as to their effect on some species of wildlife. Monsanto Chemical Company is the sole supplier to the industry of various grades of chlorinated biphenyls for use as a liquid dielectric in electrical apparatus. These materials are known as askarels or by various trademarks, including General Electric's registered trademark, Pyranol.

Monsanto has been reviewing procedures to be sure that these materials do not find their way into land or water environment. General Electric is in receipt of a letter from Monsanto expressing its concern, and a copy is attached for your information.

Although this material is sealed in electrical apparatus, there may be occasions when disposal may become necessary and the problem of environmental control arises. In order to aid you in solving the problem of disposal, we have made arrangements with Monsanto to dispose of scrap Pyranol. Should you have scrap Pyranol, it should be placed in closed drums and shipped, at your expense, to Monsanto's W. G. Krummrich Plant at Sauget, Illinois, attention Supervisor, Dept. 246. Monsanto has initially established a charge of 3¢ for each pound of scrap material returned by you.

Material which is saturated with Pyranol such as fuller's earth, sawdust, rags, solid insulations taken from apparatus, etc., should be contained

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and stored by you pending a better solution. We intend to bring the whole disposal problem to the attention of an appropriate body in the industry with an aim to working out a long-range solution for the industry.

The industry has used askarels in apparatus for over thirty years. In our experience they have produced no ill effect on workmen in close contact with them except for temporary skin irritation in certain individuals, as noted in our instruction books.

We plan to continue the use of this excellent liquid dielectric and because it is used in sealed apparatus, we foresee no difficulties provided good judgment is exercised in handling and disposal procedures.

Very truly yours,

WATER_PCB-SD0000001950

Monsanto

ORGANIC CHEMICALS DIVISION

Monsanto Company
800 N. Lindbergh Boulevard
St. Louis, Missouri 63166
Phone: (314) 694-1000

February 18, 1970

Dear Sir:

Recently several newspaper and magazine articles have been published indicating that Polychlorinated Biphenyls (PCBs) have been discovered at some points in some marine, aquatic and wildlife environments. The quantities detected are said to be in the parts per million and parts per billion categories.

It is claimed that the PCBs found strongly resemble chlorinated biphenyls containing 54% and 60% chlorine by weight. Products which are sold by Monsanto under the trade names of Aroclor® 1254 and 1260 do contain chlorinated biphenyls. In addition to Aroclor® 1254 and 1260, Monsanto sells certain functional fluids containing Aroclor® 1254. These include Pydraul® 625, Pydraul® AC, Pydraul® AC - Winter Grade, Pydraul® 540, Therminol® FR-3 and certain dielectric formulations. Several other companies around the world also produce products containing chlorinated biphenyls.

As your supplier of Aroclor® 1254 and 1260 and formulated products containing 1254, we wish to alert you to the potential problem of environmental contamination as referred to in the newspaper and magazine articles.

We would like to point out the following additional facts:

1. Products such as Pydraul® 90,135, 230, 312, A-200, F-9, 150, and 60, Turbinol® 153 and Therminol® FR-1 and FR-2 are not formulated with Aroclor® 1254 or 1260.

2. PCBs with a chlorine content of less than 54% have not been found in the environment and appear to present no potential problem to the environment.

WATER_PCB-SD0000001951

We have developed, and are now testing, new formulations to replace the Aroclor® 1254 and 1260 components in our Pydraul® products. The new products appear to be equal in performance and to have similar physical properties.

We feel that all possible care should be taken in the application, processing and effluent disposal of these products to prevent them becoming environmental contaminants. Of interest to you may be an article in Chemical Week, October 29, 1969, regarding water pollution standards set by each state in the Union. It is attached. This article reflects that good manufacturing practice in the future may require that no product used by any company should find their way into waterways.

We realize that you have marketed or may now market transformers and other electrical equipment containing dielectric fluids which include Aroclor® 1254 and 1260. Although these fluids are sealed into such equipment it is recognized that occasionally the fluid may be lost through leaks resulting from equipment misuse or equipment repair necessitating replacement of the fluid. Since the dielectric fluid contained in this equipment is only an incidental part of the over-all unit manufactured by you, we are not notifying the purchasers of such equipment of the potential environmental contamination problem described in this letter. We do recommend, however, that you notify such equipment users of this problem.

Sincerely yours,

Don Olson

Donald A. Olson
Director of Sales
Functional Fluids Group

lb

Attachment

WATER_PCB-SD0000001952

GENERAL ELECTRIC
COMPANY
P.O. BOX 1969, CHARLOTTE, N. C. 28201

ELECTRIC
UTILITY
SALES
DIVISION

Open Letter to Electric Utility Customers:

We are not able to be certain from our records whether or not you have in the past purchased from us electrical apparatus containing Pyranol, an askarel liquid dielectric. If you have not, there is no need for you to be further concerned with the contents of this letter, but if you have, you will find the following to be of importance.

As you are well aware, the public concern with pollution is rapidly escalating. As time goes on, it can be expected to reach out to affect more and more materials that are even suspect of being potential pollutants and contaminants of the environment. Recently there have been indications that polychlorbiphenyls have been found at some points in marine, aquatic, and wildlife environments. While quantities are relatively small, it is a matter of growing concern as to their effect on some species of wildlife. Monsanto Chemical Company is the sole supplier to the industry of various grades of chlorinated biphenyls for use as a liquid dielectric in electrical apparatus. These materials are known as askarels or by various trademarks, including General Electric's registered trademark, Pyranol.

Monsanto has been reviewing procedures to be sure that these materials do not find their way into land or water environment. General Electric is in receipt of a letter from Monsanto expressing its concern, and a copy is attached for your information.

Although this material is sealed in electrical apparatus, there may be occasions when disposal may become necessary and the problem of environmental control arises. In order to aid you in solving the problem of disposal, we have made arrangements with Monsanto to dispose of scrap Pyranol. Should you have scrap Pyranol, it should be placed in closed drums and shipped, at your expense, to Monsanto's W.G. Krummrich Plant at Sauget, Illinois, attention Supervisor, Dept. 246. Monsanto has initially established a charge of 3¢ for each pound of scrap material returned by you.

Material which is saturated with Pyranol such as fuller's earth, sawdust, rags, solid insulations taken from apparatus, etc., should be contained and stored by you pending a better solution. We intend to bring the whole

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WATER_PCB-SD0000001953

disposal problem to the attention of an appropriate body in the industry with an aim to working out a long-range solution for the industry.

The industry has used askarels in apparatus for over thirty years. In our experience they have produced no ill effect on workmen in close contact with them except for temporary skin irritation in certain individuals, as noted in our instruction books.

We plan to continue the use of this excellent liquid dielectric and because it is used in sealed apparatus, we foresee no difficulties provided good judgment is exercised in handling and disposal procedures.

Very truly yours,

WATER_PCB-SD0000001954

C & P LIST STRUCTURE
for
PYRANOL MAILING

I. INDUSTRY TABS

Public Services

List 101 Investor-owned electric utilities.

102 Publicly-owned electric utilities (Munis).

103 Federal Power Agencies (TVA),

104 Rural electric cooperatives (REC's).

Mines, Quarries, Oil and Gas Wells

201 Iron ore mines.

202 Non-ferrous metals mines.

203 Coal mines.

204 Other non-metallic mines and quarries.

205 Oil and gas-well drilling operations.

Manufacturers and producers of Primary Materials

225 Steel and other primary metals.

226 Ferrous castings, forgings, wire and pipe.

227 Non-ferrous metals.

228 Cement, stone, clay and glass.

229 Pulp, paper and paperboard.

230 Chemicals and allied products.

231 Petroleum and gas.

232 Lumber.

Manufacturers of Machinery and Equipment

312 Electrical apparatus (includes transformers, switchgear, electric equipment for railway cars and locomotives).

313 Other machinery and equipment (includes reactors).

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Manufacturers of Finished Goods and Products

List 326 Locomotives and railway cars.

333 Lighting products.

II. OCCUPATIONAL TABS

Electric Utility (Lists 101-104)

Operations

4-0 Management (VP's and chief operating personnel).

Engineering

5-1 Management (VP's and chief engineers).

Industrial (all other lists)

Plant Engineering

5-1 Executive (those holding the top position for this function.)

Marketing and Sales

2-3 Executive (VP's and others who hold top position for this function.)

III. PRODUCT CODES

Capacitors

13-0 Energy stored capacitors.

13-1 Power capacitors.

13-3 Electronic capacitors.

14-0 Small industrial capacitors.

Meters

53-3 Instrument transformers - liquid-filled.

WATER_PCB-SD0000001956

Outdoor Lighting

62-7 Street and highway lighting equipment.

62-9 Outdoor area and ornamental lighting equipment.

Transformers - Distribution

66-7 Distribution transformers (5-500 Kva).

66-9 Network and subway transformers.

67-0 Pad-mounted transformers.

High-Voltage Specialty Transformers

68-7 High-voltage rectifier transformers.

Transformers - Medium

69-7 Medium transformers.

69-9 Industrial type transformers and unit substation transformers (liquid-filled).

70-1 Integral distribution centers.

Transformers - Power

70-7 Arc furnace transformers.

70-9 Current limiting reactors.

71-3 Feeder voltage regulators.

71-5 Inductrols.

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