

2
Louis - General Offices

U
MR. E. L. FRENCH

June 19, 1963

Aroclor precautionary labeling

DR. HAL. SEPPALA

Attached is a resume of the historical practice in labeling Aroclor products from prior to 1947 to date. There are three memos dated in May, 1947, which confirm the precautions regarding skin contact and inhalation of fumes and dust were agreeable to the Surgeon General and also conform to the California Hazardous Chemical Labeling Law passed at about that time.

The general labeling practice for Aroclors has been to stencil the brand name "Aroclor" with the appropriate numeral designation for the product and also affix the caution label illustrated on the Xerox copy. All drums included the precaution information along with stenciling or shipping instructions.

Where use of the brand name "Aroclor" was unacceptable to a customer, the Chlorinated Diphenyl-Tech label was used to provide the appropriate caution regarding skin contact and breathing of vapor or fumes.

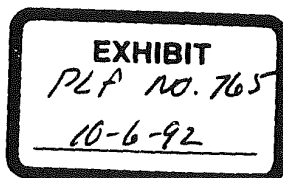
Rather than maintain two labels for the same product line, in May, 1959, the caution "Contains Chlorinated Hydrocarbons" label was prepared to serve both purposes. The precautionary information was expanded somewhat to give instructions concerning removal in the event of skin contact or eye contact and also comment regarding clothing which might have become soaked with the material. The precautions as such are consistent with those used since 1947.

In July, 1960, the label size was reduced slightly without significant reduction in type size. The size reduction was simply to provide the same container label at a somewhat lower unit cost. This same label has been reprinted many times and used since July 25, 1960.

GRS/fs
Attachment

G. Robert Sido

TRAN 088136



Sido / 765

This Package Contains

AROCLOR

(A chlorinated diphenyl, technical)

**AVOID REPEATED CONTACT
WITH SKIN AND INHALATION
OF THE FUMES AND DUSTS**

CHLORINATED Diphenyl-TECH

**CAUTION! AVOID PROLONGED OR REPEATED
CONTACT WITH SKIN. AVOID PROLONGED
BREATHING OF VAPOR AND FUMES.**

AROCLOR label

*← used from before
May 2, 1947
on all Aroclor
Drums & Packages*

*← used when the
Trademark Aroclor
could not be used*

*The
May 7, 59 dated label
replaced these*

*the labels July 25,
+ Oct 18, 61 read as
as May 7, 59. Size changed
for print cost benefit*

May 7, 1959
CAUTION! [REDACTED] HYDROCARBONS

Avoid prolonged breathing of vapors or mists.

Avoid contact with eyes or prolonged contact with skin.

If skin contact occurs remove by washing with soap and water.
Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

Caution! Contains chlorinated hydrocarbons

Avoid prolonged breathing of vapors or mists.

Avoid contact with eyes or prolonged contact with skin.

If skin contact occurs, remove by washing with soap and water.
Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

OCT 18, 1961
Caution! Contains chlorinated hydrocarbons

Avoid prolonged breathing of vapors or mists.

Avoid contact with eyes or prolonged contact with skin.

If skin contact occurs, remove by washing with soap and water.
Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

TRAN 088137

General Offices - St. Louis 66, Mo.

August 29, 1960

PYDRAUL LABELS - The Midland Ross Co.

Your Call Report 8/23/60

Richard Davis - GO
R. E. Kelly, M.D. - GO
O. R. Sido - GO
D. F. Smith - GO

Mr. R. A. Culberson
Cleveland

In Dr. Kelly's absence, I would like to comment on the reference Call Report.

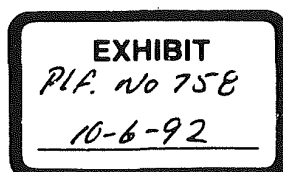
A few months ago, all Pydraul labels were revised and the new ones contain information not appearing on the old labels. We now indicate that all of our fluids (where this is the case) contain chlorinated hydrocarbons and secondly, that repeated and prolonged skin contact should be avoided. The information about composition is required because of new legislation pertaining to labeling of hazardous materials adopted by a number of industrial states. The precautionary statement about exposures is consistent with sound labeling and precautionary information policies and practices within Monsanto and the chemical industry.

Obviously, the composition of the fluids has not changed and one would not expect any more dermatitis or skin irritation from the handling and use of our fluids than in the past. At the same time, to meet moral and legal obligations, and parenthetically, to assist in forestalling more restrictive legislation, the new labels are not only appropriate, but necessary.

I am afraid you will have to tell Midland Ross that all future shipments of Pydraul, either P-9 or A-200, will bear a label similar to the new one which caused difficulty with the shop workers.

A brief statement concerning or outlining the hazards involved in handling any of the Pydrauls is included in our technical and sales bulletins. Essentially, what we have tried to say is that our fluids can be handled and used safely as long as workers do not "bathe" in the fluids and as long as they are not used in any application where the fluids, when heated to several hundred degrees F., evolve vapors into the working environment without any ventilation to remove the vapors.

TRAN 088116



Sido/758

Mr. R. A. Culberson--Page 2--August 29, 1960

Our fluids are certainly in use in many other installations where the UAW is involved and to our knowledge, in no case has the union caused a great deal of difficulty when some simple explanation is presented for labeling and precautionary information.

If Mr. Ed Melgun of Midland Ross has specific questions about any of the fluids concerning their toxicological properties or effects, please ask him to write directly to me or Dr. Kelly.

Elmer P. Wheeler

EPW:dh

TRAN 088117

St. Louis, Missouri

February 3, 1960

MONTAR LABELING

S. E. Sankey, B-2-S

C. B. Sigler, B-2-N

E. P. Wheeler, A-268-S

Paul Benignus
B-2-S

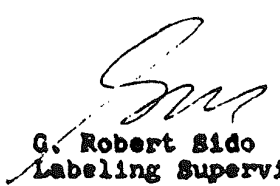
With the recent price sheet revision and review on MONTAR 1,2,3,4,5,6,9, we feel it is advisable to be consistent with other chlorinated biphenyls in precautionary labeling. In this respect the product labels should contain the following statement, or if stenciled containers, affix the black on white label containing the same information.

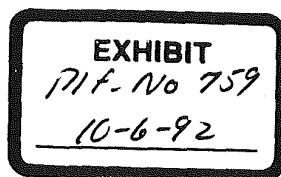
CAUTION! CONTAINS CHLORINATED HYDROCARBONS
Avoid prolonged breathing of vapors or mists.
Avoid contact with eyes or prolonged contact with skin.

If skin contact occurs remove by washing with soap and water. Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

GRS:de


G. Robert Sido
Labeling Supervisor



TRAN 055388

Sido/759

St. Louis-General Offices

October 17, 1960

PRODUCT QUESTIONNAIRES FOR
AROCLORE

D. L. Offill
A-2-S

All of the enclosed product questionnaires on AROCLORS,
etc., have the following statements under section 4,

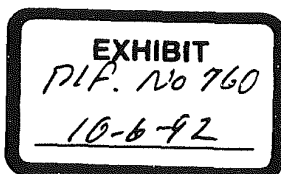
A. NATURE OF HAZARD	None
B. ICC LABEL REQUIRED	None
C. MAILABLE	Yes
D. MAXIMUM BY EXPRESS	Unlimited
E. MONSANTO LABEL REQUIRED	By Law

G. Robert Sido
Labeling Supervisor

GRS/dg

Enclosures

TRAN 088120



Sido/760

General Offices - St. Louis

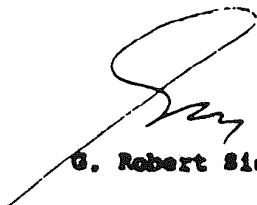
January 7, 1963

AROCOR 1248 LABELING

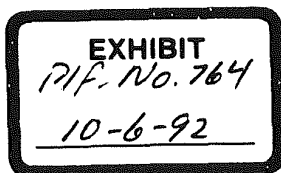
George Gibson
General Offices

All of the AROCLOR liquid products which are shipped in drums, have the product identification stencilled prominently on the container. The attached stick-on label is also applied to the container, giving appropriate hazards and precautions of storage, handling and use. The small 'Caution: Contains Chlorinated Hydrocarbons' label applies to all of the products, and the plants have found it most efficient to stencil product identification and use this sticker.

GRS/jl


G. Robert Side

TRAN 088135



Side 764

3/10/72 Copy 9
April 7, 1964

Chlorinated Polyphenyl Drum Labeling

Aroclor's - Pydraul's - Inerteen's - Pyranol's

J. H. Harriss
C. M. Williams
F. J. Rusiek
T. O. Menary
R. W. Malone

WGK PLANT
M. Smid

ANNISTON, ALA.
H. L. Gray

In all cases, these products require caution regarding chlorinated hydrocarbon exposure safeguards and it is recommended that all of these products be labeled as other Monsanto products with one label containing product identification, company name and address as well as all of the precautionary instructions. The Pydraul products are now labeled in this way. All of the Aroclor products have sample labels which are miniatures of exactly what we would provide in a larger size for use on drums. Use of this type label on the side of the drum would insure adequate identification in storage as well as make a good impression on customer receiving the merchandise.

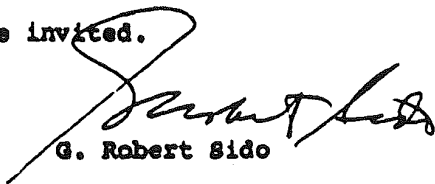
I would appreciate your concurrence with the suggestion and steps will be taken to proof and provide labels and these will include the new company name as well as appropriate trademark revisions.

As a secondary question, I would appreciate your reassurance that these products are all handled in black painted drums which carry the standard Monsanto trademarks and construction identification codes.

Inerteen's and Pyranol's

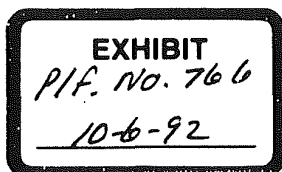
It is my understanding there is no objection to labeling these materials in a similar plan and I would like to also include them.

Your comments in this respect are invited.


G. Robert Sido

jb

TRAN 088138



Sido / 766

St. Louis - General Offices

June 9, 1964

AROCLOR DRUMS
LABELING

ANNISTON
R. O. Moody

P. G. Bonignus
G. R. Buchanan
H. L. Gray - ANNISTON
T. J. Kuciak
R. W. Malone
J. H. Harries
G. R. Sido

Just for the record, we have checked out the possible need to label electrical grade Aroclor drums and the general opinion here (GRB & PGB) is that our present stencilling on the heads of the drums is adequate and there is felt to be no real need to go to the added expense of applying labels.

CHAS. H. WILLIAMS

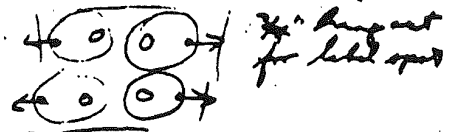
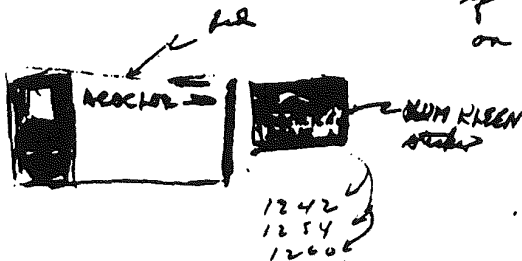
/ng

① All electrical grade aroclor shipped
direct from plant now!

② Est 10¢ / drum

currently using drums with "H" decanting

a) Labeled after in warehouse @ anniston!
label placement could be problem
if drums are not positioned properly
on pallet



TRAN 088140

EXHIBIT

P.F. No. 768

10-6-92

Sido / 768

MONSANTO CHEMICAL COMPANY

From : Monsanto, Illinois

CC:

DATE : June 24, 1964

SUBJECT : Labels

REFERENCE : Your memo dated April 7, 1964

TO : Mr. G. R. Sido-GSIDO

After checking with all personnel concerned, it has been decided that your suggestion to provide labels for Pydraul and Aroclor products not currently set up is a good one.

I have attached a packing list to this memo. Should there be further questions, please call me.

M. J. Smid

M. J. Smid

Jvn

6/25/64

action to change must be done both
at K. + annotation!

also Electronic grade identification is to be
tied into the labeling plan!

also simultaneous program may
result in lower cost to us +
pick off the longer range plan
for label appearance + type set
(Composite Identity Plan,
for

17 IN-10

EXHIBIT
PLI- No 769

10-6-92

TRAN 088141

Sido | 769

4-17-64

Dept. 246

Arcelor - Pyranol - Pydraul

Drum Sizes & Weights

Arcelor	Normal Gallon		Pounds	Type Drum	
				Lacq	Lined
1242	55 5	Pure 48"	600 60		
1248	55 5		600 60	LL	LL
1254	55 5		600 60	LL	LL
1254 Xylene	55		600	LL	
1260	55 5		600 60	LL	LL
1262	55 5		600 60	LL	LL
Pyranol					
1481	55		600	LL	
1488	55 5		675 65	LL	LL
A13B3B	55 30 5		675 360 65	LL	LL
Inerteen PPO	55 30 5		674 360 65	LL	LL
Pydraul A-200	55 5		645 59	Black Iron	Black Iron
Pydraul 280	55		630 625	Black Iron	
ALCO 205	55		635	LL	LL

V. Brawley

af

TRAN 088142

Monsanto

FROM (LOCATION) St. Louis - General Offices

DATE December 23, 1964

SUBJECT AROCLOR
DRUM MARKING

REFERENCE Your memo 12-15

TO

KRUMMRICH
P. E. Heisler

cc: P. G. Benignus
H. S. Bergen - HBERG
G. R. Buchanan
E. P. Cunningham - ECUNN
H. J. Day - HDAY
A. G. Eades
H. L. Gray - ANNISTON
B. F. Holmes - KRUMMRICH
F. J. Kusiak - FKUSI
R. W. Malone - RMALO
D. T. Mayer - KRUMMRICH
R. G. Sido - RSIDO
R. A. Steenrod - RSTEE
W. A. Stewart - WSTEW
W. G. Sturm - WSTUR
R. G. Moody - ANNISTON
~~P. F. Gaters - KRUMMRICH~~
E. E. Martin - KRUMMRICH
M. J. Smid - KRUMMRICH
E. Campbell - KRUMMRICH
J. A. Mullendore - JMULL

As there is an entirely new labeling concept now being prepared by Mr. Sido for proper identification of Aroclor drums, perhaps we should hold up any decisions about changing the Aroclor electrical and non-electrical identification until these plans are formulated.

We appreciate and share your concern about protecting Monsanto and our customers against any mishaps resulting from mis-marking of drums and hopefully the new labeling plan will give the necessary protection against this happening.

The present proposed plan will call for complete labeling rather than the present stenciling arrangement and you will be advised of details about this within the next 30-60 days.

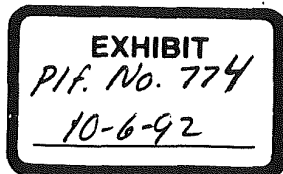
Meanwhile, normal present precautions should be observed to assure that proper grade material is shipped.

CHAS. M. WILLIAMS

/ng

TRAN 088147

IN-18 REV. 8-64



Sido 774

Monsanto

FROM (LOCATION) St. Louis - General Offices

DATE February 5, 1965

SUBJECT Aroclor Drum Markings

REFERENCE

TO MR. C. M. WILLIAMS-CWILL

cc: MESSRS:

P. G. BENIGNUS-PBENI
H. S. BERGEN-HBERG
G. R. BUCHANAN-GBUCH
MR. E. P. CUNNINGHAM-ECUNN
H. J. DAY-HDAY
A. G. EADES-AEADE
H. L. GRAY-ANNISTON
B. F. HOLMES-KRUMMRICH
F. J. KUSIAK-FKUSI
R. W. MALONE-RMALO
D. T. MAYER-KRUMMRICH
R. A. STEENROD-RSTEE
W. A. STEWART-WSTEW
W. G. STURM-WSTUR
R. G. MOODY-ANNISTON
P. F. GATENS-KRUMMRICH
E. E. MARTIN-KRUMMRICH
M. J. SMID-KRUMMRICH
E. CAMPBELL-KRUMMRICH
J. A. MULLENDORE-JMULL

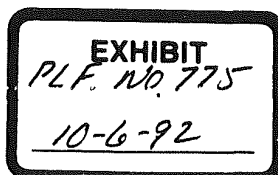
This memo confirms our recent conference regarding labeling Aroclor drums. Present drum marking and labeling does not comply with the corporate identity labeling standard. Use of this labeling plan should provide needed product identification in warehouses and by customers.

As long as we have a problem of red color fading on labels, we will proceed with printing these labels with black ink on the standard label stock to insure maximum weather durability. With black ink, tests show labels will retain product and precautionary identification. If and when we are successful in finding a durable red ink, it is our intention to shift to red and white labels which are the desired corporate standard.

Special effort is being directed towards optimum identification of various product numbers or modifications used with the AROCLOR brand. We feel product identification is of prime importance to plants, warehouses, and customers.

TRAN 088148

IN-10 RLV. 8-64



5120/775

WATER_PCB-SD0000077575

- 2 -

"Electrical Grade" display will be handled as a smaller Kum Kleen sticker alongside or above the AROCLOR drum label. (position will be specified following consultation with plant personnel,) on all material that meets electrical quality. The "Electrical Grade" label is to be removed by shipping plant or warehouse only to comply with non-electrical grade order instructions.

G. Robert Sido

GRS/fs

TRAN 088149

Monsanto, Ill.

June 23, 1965

AROCOR DRUM LABELING

C. M. Williams's Memo June 22.

Mr. C. M. Williams
General Office

M. L. Gray	- ANNISTON
O. R. Buchanan	- GBUCK
P. R. Heisler	- WOK
K. Malone	- KMA LO
R. Meedy	- ANNISTON
H. Sido	- RSIDO

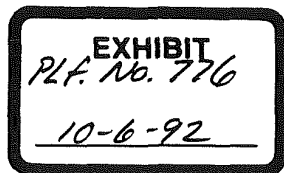
WOK will start applying Aroclor labels on Monday,
June 28, 1965.

However, labeled material will not ship until present
stock of unlabeled material is depleted.

We will also continue to stencil product name, net
weight and lot number on head of drum.

M. J. Said

Jt

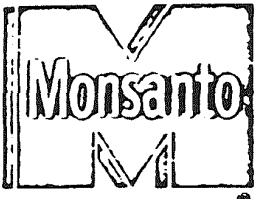


TRAN 088155

Sido | 776

5/6/70 - Reg. changes to add PCBs to other chemicals
8/12/68 - 10,000 added for Anniston (P. (Rust) C.

2000 Pcs
Anniston Plant



Handwritten signature and date: 12/1/68

10% Toluene

AROCLOR 1254

CHLORINATED POLYPHENYLS

CAUTION!

CONTAINS CHLORINATED HYDROCARBONS

- Avoid prolonged breathing of vapors or mists.
- Avoid contact with eyes or prolonged contact with skin.
- If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water.
- If clothing becomes soaked with fluid, launder before wearing again.

Handwritten signature and arrow pointing to the caution section

TRAN 005956

EXHIBIT
PLF. NO 778
10-6-92

LOT NO. _____ PACKER _____

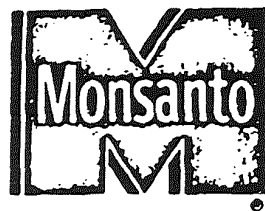
NET LEGAL 600 LBS. 272.16 KILOS

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A. 826.64-282.01/53

Side 778

7/10/68 - 10.000 lbs. added PCB at 10.000 lbs. other contents
7/1/65
2000 for
Anniston Plant

3/12/68 - 10.000 lbs. added for Anniston Plant (10.000)



AROCLOR 1254

CHLORINATED POLYPHENYLS

10% Toluene

CAUTION!

CONTAINS CHLORINATED HYDROCARBONS

Avoid prolonged breathing of vapors or mists.
Avoid contact with eyes or prolonged contact with skin.
If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water.
If clothing becomes soaked with fluid, launder before wearing again.

12/1/68
10.000 lbs. added
2/1/69
10.000 lbs. added
J. H. H.

Handwritten signature

EXHIBIT
P/F No. 779
10-6-92

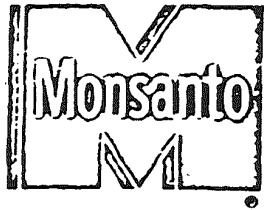
LOT NO. _____ PACKER _____
NET LEGAL **600** LBS. **272.16** KILOS

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A. 826.64-282.01/53

TRAN 009892

Side 779

1000
Packed 7/1/65
for Anniston Plant



rec change!
10/1/65
COMBUSTIBLE
95% FOC
GA

5/6/70 negative being changed to read PCB instead of other name

10% Toluene

AROCLOR 1254

CHLORINATED POLYPHENYLS

CAUTION!

CONTAINS CHLORINATED HYDROCARBONS

Avoid prolonged breathing of vapors or mists.

Avoid contact with eyes or prolonged contact with skin.

If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

change
←

TRAN 005955

EXHIBIT
DIF NO. 780
10-6-92

LOT NO. _____ PACKER _____

NET	LEGAL	60 LBS.	27.22 KILOS
-----	-------	---------	-------------

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A. 826.64-282.02/53

Side 780

11-558 7/1/65
For Anniston Plant



AROCLOR 1254

CHLORINATED POLYPHENYLS

CAUTION!

CONTAINS CHLORINATED HYDROCARBONS

Avoid prolonged breathing of vapors or mists.
Avoid contact with eyes or prolonged contact with skin.

If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

LOT NO. _____ PACKER _____

NET LEGAL **60** LBS. **27.22** KILOS

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A. 826.64-282.02/53

TRAN 009891

EXHIBIT
PLF NO. 781
10-6-92

Side 781

Reprints as shown on attached sheet - Printed July 1, 1965



AROCOR.

CHLORINATED POLYPHENYLS

1254

CAUTION!

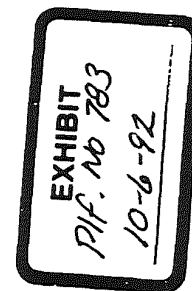
CONTAINS CHLORINATED HYDROCARBONS

Avoid prolonged breathing of vapors or mists.

Avoid contact with eyes or prolonged contact with skin.

If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.



TRAN 009894

LOT NO. _____ PACKER _____

NET LEGAL **60** LBS. **27.22** KILOS

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A. 826.13-280.06/53

Side 783

Monsanto

C O M P A N Y

800 N. Lindbergh Boulevard
St. Louis, Missouri 63166
(314) WYdown 3-1000

PYDRAUL 135

Toxicity and Safe Handling Information

This hydraulic fluid consists of chlorinated biphenyl, a phosphate ester, and a high viscosity selected petroleum fraction of low volatility. Our label for this product contains the following precautionary statement:

CAUTION!

Contains Chlorinated Hydrocarbons.

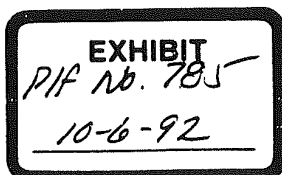
Avoid prolonged breathing of vapors or mists.
Avoid contact with eyes or prolonged contact with skin.
If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water.
If clothing becomes soaked with fluid, launder before wearing again.

Acute (range-finding) toxicity studies have shown that the oral LD₅₀ of Pydraul 135 when administered to rats is approximately 4,615 milligrams per kilogram of body weight (limits - 4,060 to 5,260 mg/kg). Application undiluted to the skin of rabbits results in a minimum lethal dose of 2,510 to 3,980 mg/kg. In skin and eye irritation potential studies with rabbits, the fluid was classed as non-irritant (score of 0.0/0.0) to skin and "slight irritant" to eyes (maximum score of 2.3/110 one hour after instillation in rabbits eyes). Rats survived (with no effects) a 6-hour exposure to an atmosphere approximately saturated with vapors at ambient temperature.

Experience with this and other members of the Pydraul series indicates that these fluids should be used in systems as free from leaks as possible. This is particularly important if the fluid is at elevated temperature where components of the formulation may be volatilized into the workroom. At ambient temperature the vapor pressures are such that there are no significant vapor inhalation hazards.

If there is accidental spraying of Pydraul 135 into molten metal or on heated surfaces, the fluid will be vaporized and/or decomposed depending on the temperature of the metal. About 15 years ago we had rather extensive tests run at

TRAN 056746



Sido/785

Kettering Laboratories at the University of Cincinnati where a Pydraul fluid was sprayed on metal heated to 1,050°F and 1,250°F. The vaporized fluid and decomposition products were discharged into suitable animal exposure chambers. Similar experiments were run with a tricresyl phosphate hydraulic fluid and a petroleum based fluid. The general conclusion reached was that there was little difference, from a practical standpoint, in the toxicity of the three products as demonstrated in the experiments.

If a phosphate ester fluid or Pydraul is sprayed into molten metal as a result of the rupture of a hydraulic line on a diecasting machine, a cloud of acrid vapor and smoke will develop. This will consist principally of soot, CO, CO₂, water, aldehydes and cresols. In the case of Pydraul, there will be in addition, hydrochloric acid in the smoke due to the decomposition of the chlorinated compound. This may make the "cloud" somewhat more acrid or irritating but does not significantly increase the toxicity.

Where the Pydrauls have been involved in such accidents, there have not been cases where employees could not safely shut down equipment and leave the area. As with a petroleum or phosphate based fluid, it might or might not be necessary to wear respiratory protection to re-enter the area until it could be ventilated. This would depend, of course, on the amount of fluid that was sprayed or leaked onto the molten metal or hot surface.

Our label recommends avoidance of repeated and prolonged skin contact. This precaution is indicated since Pydraul 135 is an excellent solvent for the natural fats and oils on the skin. When these are removed the skin may tend to dry and crack. The fluid works much like many common paint thinners in this respect.

R. Emmet Kelly, M.D.
Medical Director

August 2, 1966

TRAN 056747

DEPARTMENT 246

STENCILING AND LABELING AROCLOR DRUMS

All aroclors are drawn into 55 gallon lacquer lined drums and 5 gallon lacquer lined cans.

The top of the drum is to be stenciled with black stencil ink and a "caution" label must be placed on the top. An Aroclor label is attached to the side and, if the drum contains electrical grade material, an "ELECTRICAL" sticker must be placed above the label.

It is extremely important to Aroclor quality that it not be contaminated with water or any foreign materials. Therefore drums and cans should be inspected on the inside with a flashlight to guard against filling contaminated drums.

There are 2 bungs on the top of each drum. One is a 2" bung used for filling the drum. The other is a 3/4" bung used for a breather when the material in the drum is eventually used. Both bungs must be tightened with a "bung wrench", and an unmarked seal crimped over them.

The top of the drum should be clean (free of dust etc.) before the stencil-ink is applied to allow the ink to make a good bond with the paint. Many times drums are sent to foreign countries and are "weather beaten" for month before use, it is important that the stenciling still be legible.

A "caution" label is a State regulation. It must be placed on the top of all drums that contain Aroclor or any mix or blend that contains Aroclor.

Lacquer lined drums have a plastic coating on the inside that is sprayed on and then baked. They also have 2 big white "M"'s painted on the sides.

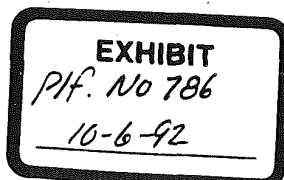
Black iron drums have no coating on the inside and do not have a big "M" painted on the outside. They are used for Pydrauls only.

Black iron and lacquer lined drums weigh 48 lbs tare. However, occasional drums weights will vary 1,2,3, or 4 lbs. When this happens the correct net weight of material should be put into the drum.

TRAN 088159

V. Brawley
11-1-66

INK
RK-1



Sido/786

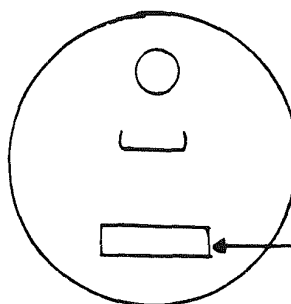
AROCLOR - 5 GAL. CANS

AROCLOR	NET WEIGHT	LOT SERIES
1242	55 lbs	400
1248	60 lbs	500
1254	60 lbs	600
1260	60 lbs	1000
1262	60 lbs	1200

Aroclors are drawn into 5 gallon lacquer lined cans with a pull-up spout. After the can is filled a small seal is pressed firmly over the spout and a screw type cap is tightened with a small hand tool.

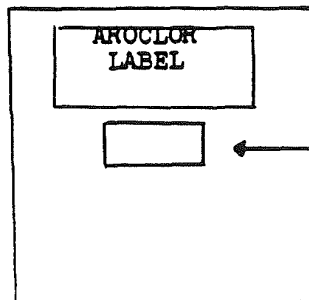
A "caution" label must be stuck to the top of the can on the opposite side of the cap. A cum-clean Aroclor label is placed on the side of the can and must include the following information: type Aroclor, lot number, packaged by (clock number) and net weight.

Top



"CAUTION" LABEL

Side



"ELECTRICAL" LABEL
To be used on
Electrical Grade
Aroclors only

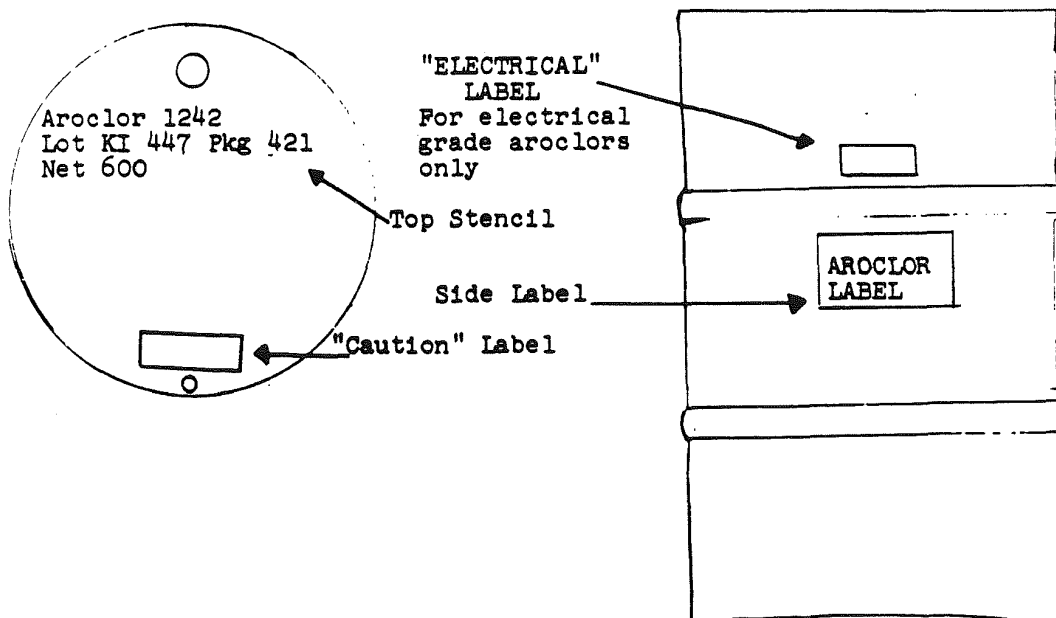
TRAN 088160

AROCLOR - 55 GAL. DRUMS

AROCLOR	NET WEIGHT	LOT SERIES
1232	550 lbs	300
1242	600 lbs	400
1248	600 lbs	500
1254	600 lbs	600
1260	600 lbs	1000
1262	600 lbs	1200

Aroclors are drawn into 55 gallon lacquer lined drums with the big "M" painted white on the side. After the drums are filled the two bungs must be tightened and plain seals crimped over the bungs.

A "caution" label must be stuck to the top of the drum close to the small bung. A cum-clean Aroclor label is placed on the side of the drum and a stencil on the top and both must include the following information: Type Aroclor, lot number, packaged by (clock number) and net weight.



TRAN 088161

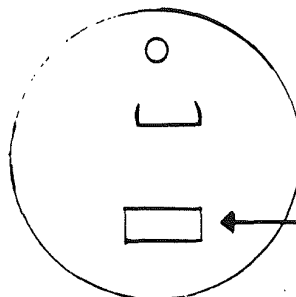
THERMINOL - 5 GALLON CANS

THERMINOL	NET WEIGHT	LOT SERIES
FR - I	55 lbs	3100
FR - II	60 lbs	3200
FR - III	60 lbs	3300

Therminols are drawn into 5 gallon lacquer lined cans with a pull-up spout. After the can is filled a small seal is pressed firmly over the spout and a screw type cap is tightened with a small hand tool.

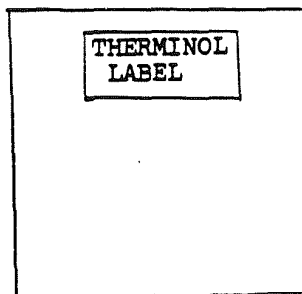
A "caution" label must be placed on the top of the can on the opposite side of the cap. A cum-clean therminol label is placed on the side of the can and must include the following information: Type Therminol, lot number, package by (clock number), and net weight.

TOP



"CAUTION" LABEL

SIDE



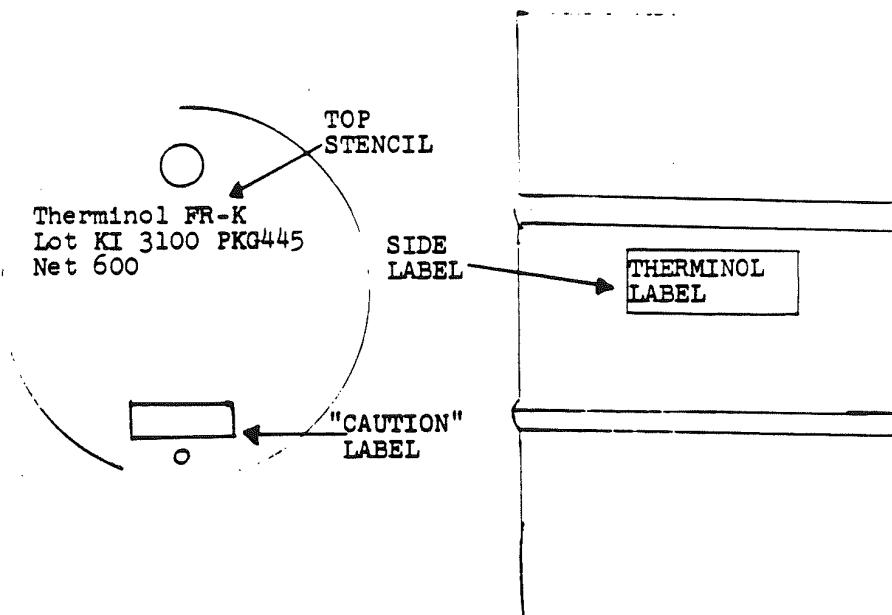
TRAN C98162

THERMINOL - 55 GALLON DRUMS

THERMINOL	NET WEIGHT	LOT SERIES
FR - I	600 Lbs	3100
FR - II	600 Lbs	3200
FR - III	600 Lbs	3300

Therminols are drawn into 55 gallon lacquer lined drums with the big "M" painted white on the side. After the drums are filled the two bungs must be tightened and plain seals crimped over the bungs.

A "caution" label must be stuck to the top of the drum close to the small bung. A cum-clean therminol label is place on the side of the drum and a stencil on the top, both must include the following information: Type Therminol, lot number, packaged by (Clock number) and net weight.



TRAN 088163

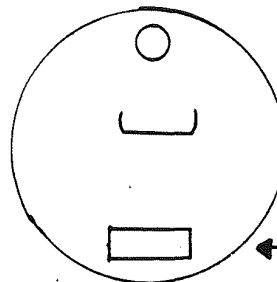
PYDRAUL - 5 GALLON CANS

PYDRAUL	NET WEIGHT	LOT SERIES
A-200	59 lbs	200

Pydraul A-200 is drawn into 5 gallon lacquer lined cans with a pull-up spout. After the can is filled a small seal is pressed firmly over the spout and a screw type cap is tightened with a small hand tool.

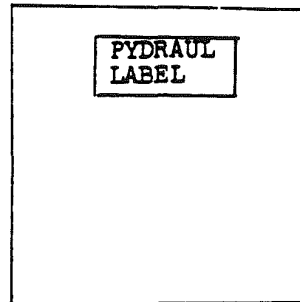
A "caution" label must be placed on top of the can opposite the cap. A cum-clean Pydraul label is placed on the side of the can and must contain the following information: Type Pydraul, lot number, packaged by (clock number) and net weight.

TOP



"CAUTION" LABEL

SIDE



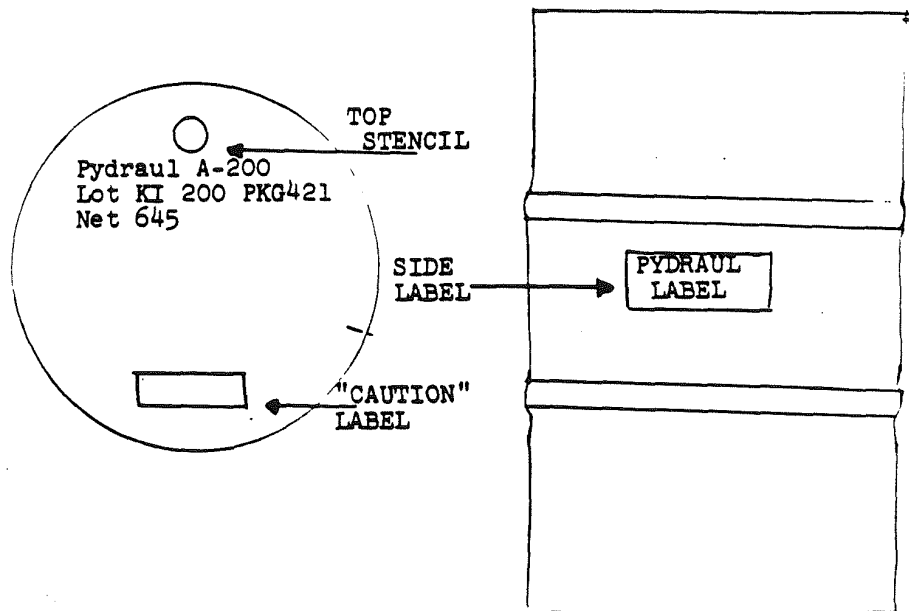
TRAN 088164

PYDRAUL - 55 GALLON DRUMS

PYDRAUL	NET WEIGHT	LOT SERIES
A-200	645	200
280	625	2300

Pydrauls are drawn into 55 gallon black iron drums with no "M" painted white on the side. After the drums are filled the two bungs must be tightened and plain seals crimped over the bungs.

A "caution" label must be stuck to the top of the drum close to the small bung. A cum-clean Pydraul label is placed on the side of the drum and a stencil on the top, both must include the following information: Type Pydraul, lot number, packaged by (clock number) and net weight.



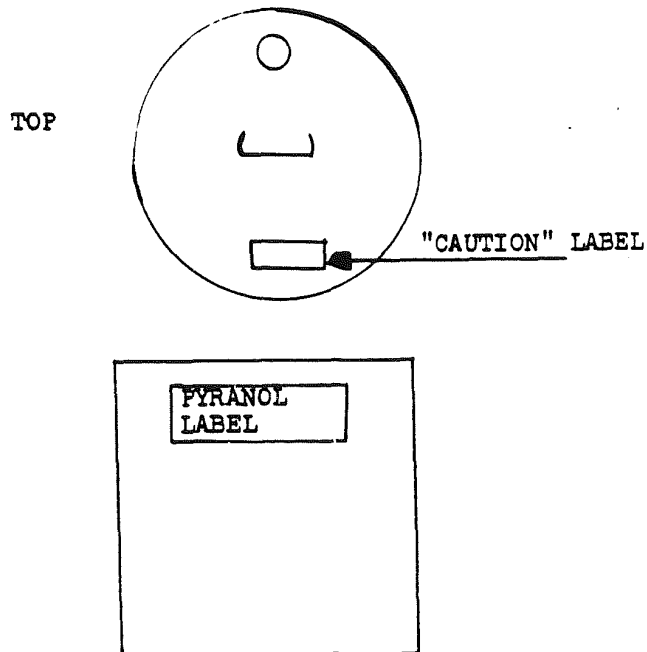
TRAN 088165

PYRANOLS - 5 GALLON CANS

PYRANOL	NET WEIGHT	LOT SERIES
INERTEEN PPO	60	1800
A13B3B	65	1500

Pyranols are drawn into 5 gallon lacquer lined cans with a pull-up spout. After the can is filled a small seal is pressed firmly over the spout and a screw type cap is tightened with a small hand tool.

A "caution" label must be stuck to the top of the can on the opposite side of the caps. A cum-clean Pyranol label is placed on the side of the can and must include the following information: Type Pyranol, lot number, packaged by (clock number) and net weight.



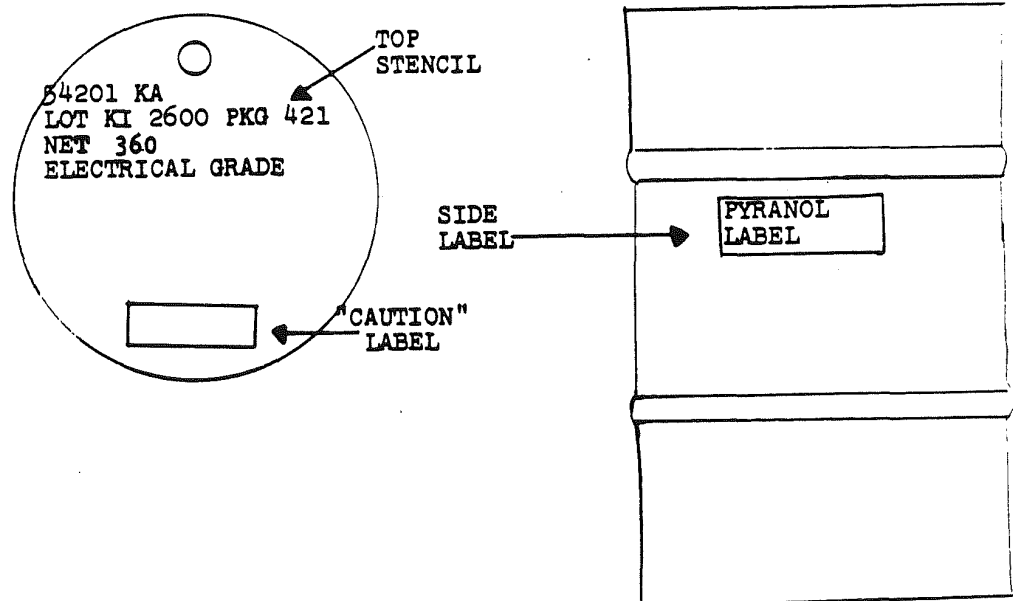
TRAN 088166

PYRANOLS - 30 GALLON DRUMS

PYRANOLS	NET WEIGHT	LOT SERIES
A13B3B	360	1500
INERTEEN PPO	360	1800
54201 KA	360	2600

Pyranols are drawn into 30 gallon lacquer lined drums with the big "M" painted white on the side. After the drums are filled the two bungs must be tightened and plain seals crimped over the bungs.

A "caution" label must be stuck to the top of the drum close to the small bung. A cum-clean Pyranol label is placed on the side of the drum and a stencil on the top, both must contain the following information: Type Pyranol, lot number, packaged by (clock number) and net weight.



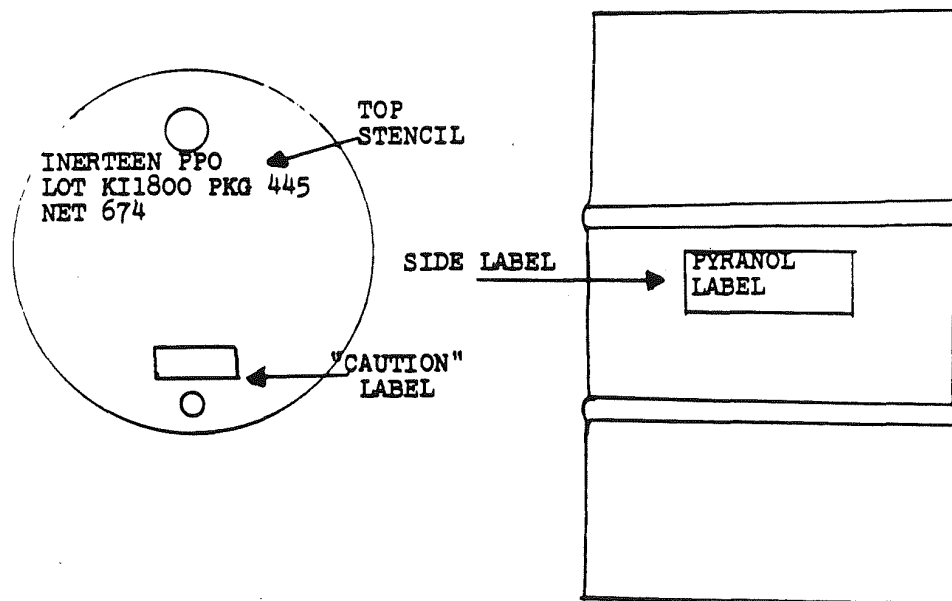
TRAN 088167

PYRANOLS - 55 GALLON DRUMS

PYRANOL	NET WEIGHT	LOT SERIES
A13B3B	675	1500
Inerteen PPO	674	1800
54201 KA	674	2600

Pyranols are drawn into 55 gallon lacquer lined drums with the big "M" painted white on the side. After the drums are filled the two bungs must be tightened and plain seals crimped over the bungs.

A "caution" label must be stuck to the top of the drum close to the small bung. A cum-clean Pyranol label is placed on the side of the drum and a stencil on the top, both must include the following information: Type Pyranol, lot number, packaged by (clock number) and net weight.



TRAN 088168

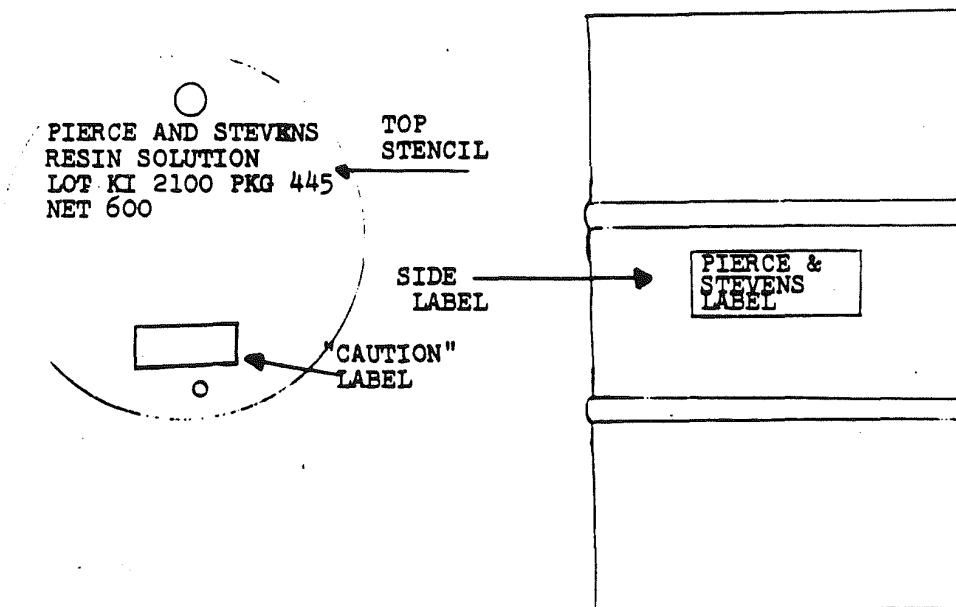
PIERCE AND STEVENS - 55 GALLON DRUMS
(1254 AROCLOR AND 10% XYLENE)

NET WEIGHT	LOT SERIES
600	2100

Pierce and Stevens Resin Solution is drawn into 55 gallon lacquer lined drums with the big "M" painted white on the side.

A "caution" label must be stuck to the top of the drum close to the small bung. A cum-clean label is placed on the side of the drum and a stencil on the top, both must contain the following information : Product name, lot number, packaged by (clock number) and net weight.

THIS IS A FLAMMABLE PRODUCT. AFTER THE DRUM IS FILLED IT MUST BE ALLOWED TO COOL FOR ONE HOUR BEFORE TIGHTENING THE BUNG AND CRIMPING THE PLAIN SEALS.



TRAN 088169

STENCILS FOR DRUM TOPS

AROCLOR 1232
LOT KI 300 PKG 421
NET 600

AROCLOR 1242
LOT KI 400 PKG 445
NET 600

AROCLOR 1248
LOT KI 500 PKG 421
NET 600

AROCLOR 1254
LOT KI 600 PKG 445
NET 600

AROCLOR 1260
LOT KI 1000 PKG 421
NET 600

AROCLOR 1262
LOT KI 1200 PKG 445
NET 600

THERMINOL FR-0
LOT KI 2500 PKG 421
NET 635

THERMINOL FR-1
LOT KI 3100 PKG 421
NET 600

THERMINOL FR-2
LOT KI 3200 PKG 445
NET 600

THERMINOL FR-3
LOT KI 3300 PKG 421
NET 600

PYDRAUL A-200
LOT KI 200 PKG 421
NET 645

PYDRAUL 280
LOT KI 2300 PKG 445
NET 625

TRAN 088170

STENCILS FOR DRUM TOPS - (CONT'D)

INTERTEEN PPO
LOT KI 1800 PKG 421
NET 674

54201 KA
LOT KI 2600 PKG 445
NET 674

PYRANOL 1488
LOT KI 1700 PKG 421
NET 675

TRANSFORMER PYRANOL
A-13-B-3B
LOT KI 1500 PKG 445
NET 675

PIERCE AND STEVENS
RESIN SOLUTION
LOT KI 2100 PKG 445
NET 600

SANTICIZER 794
LOT KI 2800
NET 600

MONTAR 1
LOT KI PKG 421
NET (All weights are different)

MONTAR 2
LOT KI PKG 445
NET (All weights are different)

MONTAR 3
LOT KI PKG 421
NET (All weights are different)

MONTAR 4
LOT KI PKG 445
NET (All weights are different)

Cum-clean labels are not made for all products. For the drums without labels it is necessary to stencil the side as well as the top.

Black stencil ink is used on the top of the drum.

Yellow stencil ink is used on the side of the drum.

TRAN 088171

Effective 1-1-69
Supersedes 5-1-66
TERMS Net 30 days

THERMINOL FR-LO Temp
THERMINOL FR-0
THERMINOL FR-1
THERMINOL FR-2
THERMINOL FR-3

DELIVERY Domestic F.O.B. — See Price Box
Export F.A.S. Atlantic & Gulf Ports only.
PRICES U.S. \$ per Lb. Minimum order \$50.00

THERMINOL	TANK CAR TODT 11 4000 Lb. Net Wt. Min.	TANK TRUCK TODT 11 2000 Lb. Net Wt. Min.	55 LB. DRUM — (TODT 20)			5 GAL CAN CODE 24
			15/16 Lb.	1.75 Drum	1.1 Drum	
F.O.B. Anniston, Ala., only FR-LO Temp 6145 100-11-69 FR-0 6145-000-11-69	25 lb.	25 lb.	27 lb.	30 lb.	32 lb.	40 lb.
F.O.B. Ex. Whse. West Coast	—	—	—	35 lb.	37 lb.	45 lb.
F.A.S. Atlantic & Gulf Ports	—	—	285 lb.	33 lb.	35 lb.	45 lb.
F.O.B. Anniston, Ala., or Saugat, Ill. Seller's Option FR-1 1040-245-11-03/09 FR-2 1040-265-11-03/09 FR-3 1040-285-11-03/09	23 lb.	23 lb.	25 lb.	28 lb.	30 lb.	38 lb.
F.O.B. Ex. Whse. West Coast	—	—	—	33 lb.	35 lb.	43 lb.
F.A.S. Atlantic & Gulf Ports	—	—	265 lb.	31 lb.	33 lb.	43 lb.

*Truckload quantities—tariff minimum but not less than 20,000 lbs. net.
A mixed truckload quantity may consist of various Therminol Fluids.

STANDARD CONTAINERS

Type	Net Weight	Gross Wt. Approx.	Cubic Feet
All — 55 gal metal drum	600 lbs.	648 lbs.	10 3/4
FR-LO Temp & FR-1 5 gal metal drum	55 lbs.	60 lbs.	1
FR-0, 2 & 3 5 gal metal drum	60 lbs.	65 lbs.	1

SAMPLES 16 ounces. Mailable.

SHIPPING CLASSIFICATION

Domestic

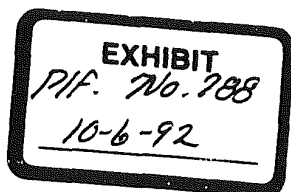
Chlorinated Diphenyl/Synthetic Resin
Liquid NOIBN

HANDLING PRECAUTIONS

CAUTION! Contains chlorinated hydrocarbons. Avoid prolonged breathing of vapors or mists. Avoid contact with eyes or prolonged contact with skin. If skin contact occurs, remove by washing with soap and water. If clothing becomes soaked with fluid, launder before wearing again.

LABELING REQUIREMENTS

Product label required by law.



TRAN 057803

5:20/788

MONSANTO SPECIFICATIONS

THERMINOL

Property	FR-LO Temp	FR-0	FR-1	FR-2	FR-3
Appearance	Clear, colorless liquid	Clear, colorless liquid	Clear, colorless liquid	Clear, colorless liquid	Clear, colorless liquid
Density— lbs./cu. ft.	89.2-90.5 at 77°F	87.4-88.7 at 77°F	86.2-86.9 at 77°F	87.7-88.5 at 149°F	93.2-93.9 at 149°F
Acid No.—mg. KOH/gm.	0.05 max	0.05 max	0.01 max	0.01 max	0.01 max
Moisture—ppm	75 max	75 max	50 max	50 max	50 max
Thermal Stability	Curve available on request				
Vapor Pressure	Refer to Technical Bulletin		Refer to Therminol Manual		
Viscosity— centipoise					
at 100°F	5.1 max	12.5 max	26 max	75 max	—
at 210°F		2.0 max	3.5 max	5.0 max	10 max
at 600°F		—	0.35 max	0.36 max	0.42 max
Specific Heat— BTU/lb.,°F	0.26 min at 100°F	0.27 min at 100°F	0.28 min at 85°F	0.26 min at 85°F	0.24 min at 130°F
Thermal Conductivity BTU/hr., sq. ft., °F/ft.	0.062 min at 100°F	0.0610 min at 100°F	0.0608 min at 85°F	0.0587 min at 85°F	0.0569 min at 90°F
Fire Point	None	None	None	None	None

GENERAL INFORMATION

Therminol is Monsanto's trademark for industrial heat transfer fluids. Therminol FR fluids are fire resistant heat transfer media produced to rigid specifications important to heat transfer.

There are five Therminol FR products:

Therminol FR-LO Temp—with extremely low temperature pumpability: minus 40°F with positive displacement pumps.

Therminol FR-0—with very low temperature fluidity -0°F pumpability.

Therminol FR-1—with low temperature fluidity—excellent for processes requiring both heating and cooling.

Therminol FR-2—with the optimum balance of properties for use in most common industrial heat transfer systems.

Therminol FR-3—with highest boiling point for special processing equipment applications.

Typical
Physical Properties

	Therminol FR-LO Temp	Therminol FR-0	Therminol FR-1	Therminol FR-2	Therminol FR-3
Specific Gravity @ 77°F	1.445	1.415	1.385	1.452	1.543
Weight per gallon: @ 77°F	12.05	11.80	11.55	12.11	12.87

TRAN 057804

Uses Liquid heat transfer media

Literature Therminol FR Heat Transfer Sales Booklet
 Therminol FR Engineering Heat Transfer Manual
 Therminol FR-0 Engineering Heat Transfer Bulletin
 Therminol FR-LO Temp Engineering Heat Transfer Bulletin

Benefits

1. **Safety**—Protects plant and personnel from fires, pressure explosions.
2. **Reliability** — Assures maximum production, minimum maintenance.
3. **Economy**—Minimum cost for equipment, operation.

Good Qualities

Therminol FR fluids are fire resistant—the only heat transfer fluids listed with Underwriters' Laboratories—and they operate in non-pressurized systems because of their high boiling points and low vapor pressures.

Therminol FR liquid heating eliminates the local hot spots of direct fired processing; eliminates the corrosion problems and scaling of water boilers; eliminates the condensate return problems and condensate sub cooling of organic vapor systems.

Fire resistance and its recognition by insurance carriers allows elimination of certain costly safety devices. Non-pressurized operation eliminates the need for costly high pressure pipes, equipment—does not require the attendance of a licensed engineer in most cities and states.

COMPETITION

Dowtherm A—Diphenyl/Diphenyl Oxide—Dow Chemical Co.
 Mobiltherm 600—Petroleum Oil—Mobil Oil Co., Inc.
 Humbletherm 500—Petroleum Oil—Humble Oil Co.

AUTHORIZED DISTRIBUTORS

None

285 W 300 O

TRAN 057805

Monsanto

FROM (NAME & LOCATION)

DATE August 20, 1969

SUBJECT Toxicity Warning Label - Aroclor

REFERENCE

TO : H. L. Williams

cc DDANN - D. Danna
WKUHN - W. A. Kuhn
V. R. Haupt
G. W. Miller
M. B. Mullally
W. B. Papagorge

I recommend the Functional Fluids Group review the precautionary drum label and the technical information relating to all Therminols. The current label does not warn against ingestion. The potential of ingestion exists when Therminol is used in processing foodstuffs.

The results of one contamination is detailed in the attached June 1969 Japan Times News item. The incident described resulted from a leak of 1248 Kanechlor, produced by Kanegafuchi, into rice oil. The Kanechlor was the heat source for the food product. Additional information is available for MMK through Mr. Danna.

Users of Therminol in food processing plants should be aware of the potential hazard. Their quality control should be geared to detect such an occurrence. The current label has no warning on the results of ingestion. It is inferred, but not spelled out.

CAUTION: Contains chlorinated hydrocarbons. Avoid prolonged breathing of vapors or mists. Avoid contact with eye or prolonged contact with skin.

If skin contact occurs removing by washing with soap and water. Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

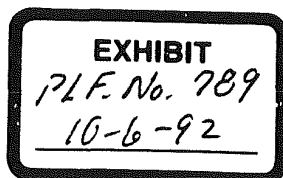
this material should not come in contact with edible food products.


B. O. Severson

Attachment

:mlh

TRAN 058282



Sido | 789

Elmer P. Wheeler, Medical Department

February 10, 1970

G. R. Sido, OSIDO

Toxicity and Safe Handling

Statements--~~Pydraul 625-A~~

Pydraul AC-A

Pydraul AC-A-WQ-28

David A. Hall

DHALL

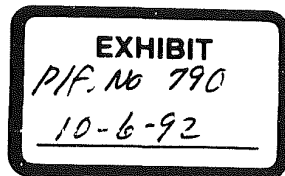
Confirming our telephone conversation, I think the following statement would be appropriate in bulletins for the subject materials:

"Animal toxicity screening studies indicate that Pydraul 625-A (AC-A or AC-A-WQ-28) may be considered only "slightly toxic" from the standpoint of accidental ingestion or skin absorption. It does not appear to have any significant potential for skin or eye irritation. However, its solvent properties could lead to de-fatting and drying of the skin; thus it is recommended that reasonable personal hygiene be practiced to avoid prolonged and repeated skin exposure."

As we discussed, since these formations do contain chlorinated terphenyls, our labels for these new formations would have to be the same as the labels for the materials presently marketed. This is necessary since there are various state and labeling laws which prescribe certain requirements for products containing chlorinated hydrocarbons.

Elmer P. Wheeler

:ju



TRAN 009752

Sido/790

Monsanto

APR 15 1970

TO: NAME & LOCATION

W. B. PAPAGEORGE - ST. LOUIS

DATE

APRIL 13, 1970

J. MASON

P. S. PARK

SUBJECT

AROCLOR LABELING

TO: NAME

TO

H. S. BERGEN
M. W. FARRAR - SECOND STREET
E. V. JOHN
C. PATON
W. R. RICHARD
J. R. SAVAGE
J. E. SPRINGGATE
E. P. WHEELER
D. A. OLSON

During our April 3rd meeting, the subject of modifying the labels on Aroclor packages was reviewed and Phocian Park offered to work on the appropriate wording.

He suggests the following paragraph be added to the existing wording:

"This product contains polychlorinated biphenyls, which some studies have shown may be an environmental contaminant. Care should be taken to prevent any loss into the environment through spills, leakage, disposal, evaporation or otherwise."

This additional wording is intended for packages containing Aroclors 1242, 1248, 1254, 1260, 1262, 1268, 4465 and Montars 1, 2, 3, 4 and 7.

Attached is a copy of a typical label. The proposed wording would appear in the space below the present printing.

We are anxious to make this change quickly. May I have your comments?

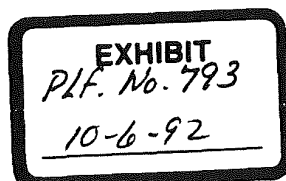
W. B. Papageorge
W. B. PAPAGEORGE

ms

Attachment

TRAN 088183

IN 10 REV 11 66



Side 793



AROCLO[®] 1260

CHLORINATED POLYPHENYLS

CAUTION!

CONTAINS CHLORINATED HYDROCARBONS

Avoid prolonged breathing of vapors or mists.

Avoid contact with eyes or prolonged contact with skin.

If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

LOT NO. _____ PACKER _____

NET	LEGAL	600	LBS.	272.16	KILOS
------------	-------	------------	------	---------------	-------

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A. 826.14-290.07/5

TRAN 088184

✓ - Acc. by J.P. Hall
D. A. Olson - St. Louis

April 20, 1970

AROCIOR LABELING

H. S. Bergen - HBERG
P. G. Benignus - PBENI
J. R. Fallon - JFALL
W. T. Johnson - WJOHN

W. B. Papageorge - WPAPA

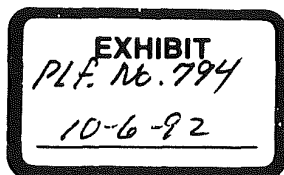
We are in agreement with the proposed additional label paragraph relating to PCB's for electrical grade and nonelectrical grade Aroclors and for the applicable Therminol products. We would make the following comments as to deviations:

1. We would not like to see this label adapted to the Pydraul line. I think this is a reasonable approach since we are going through a reformulation of all of our products which, over a period of time, will eliminate the necessity for this paragraph.
2. Jack Fallon has previously talked to Bob Side about a suggested Therminol label change which relates to ingestion in feed. You should review this addition also, and perhaps incorporate both at the same time.
3. We should obtain approval from General Electric and Westinghouse before putting this paragraph on Pyranol and Inerteen labels. While I am sure this is just a formality, I think it would be wise to give them a shot at it before we made the actual change. Please let me know if you wish us to follow this portion.

D. A. Olson

/ph

TRAN 088187



Side / 794

W. B. PAPAGEORGE - ST. LOUIS

APRIL 28, 1970

H. S. BERGEN
P. S. PARK
J. R. SAVAGE
J. E. SPRINGGATE

G. ROBERT SIDO

With the mounting interest in polychlorinated biphenyls (PCB) and their possible harmful effects on the environment, we are very interested in adding the following statement on products containing PCB's.

"This product contains polychlorinated biphenyls, which some studies have shown ^{to be} may be an environmental contaminant. ^{extra} Care should be taken to prevent any ^{loss} into the environment through spills, leakage, disposal, vaporization or otherwise." ^{use}

This additional wording is intended for packages containing Aroclors 1232, 1242, 1248, 1254, 1260, 1262, 1268 and 4465 and Montar 1.

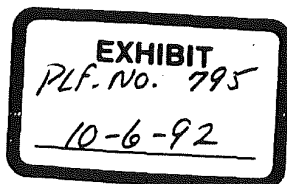
We also plan to use this statement on Pyranol and Inerteen labels, but we will discuss with General Electric and Westinghouse since the trademarks belong to them.

We are very anxious to make this change quickly. May I have your comments?

W. B. PAPAGEORGE

G-1-70 Called Sido - he is already aware of changes - said no need to write new memo.

TRAN 088190



95

Sido / 795

Monsanto

FROM NAME & LOCATION: W. B. PAPAGEORGE - ST. LOUIS

DATE: APRIL 28, 1970

cc H. S. BERGEN
P. S. PARK
J. R. SAVAGE
J. E. SPRINGOATE

TO: G. ROBERT SIDO

With the mounting interest in polychlorinated biphenyls (PCB) and their possible harmful effects on the environment, we are very interested in adding the following statement on products containing PCB's.

"This product contains polychlorinated biphenyls, which some studies have shown ^{2 to be} may be an environmental contaminant. ^{entry} Care should be taken to prevent any loss into the environment through spills, leakage, disposal, ^{use,} vaporization or otherwise."

This additional wording is intended for packages containing Aroclors 1232, 1242, 1248, 1254, 1260, 1262, 1268 and 4465 and Montar 1.

We also plan to use this statement on Pyranol and Inerteen labels, but we will discuss with General Electric and Westinghouse since the trademarks belong to them.

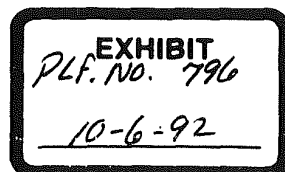
We are very anxious to make this change quickly. May I have your comments?

1232	MS Dist. to tw	✓
	5014	
	555	
1242	MS Dist.	✓
	55	
	600	
1248	MS Dist.	
	55	
	60	
	600	
1254	MS Dist.	
	60	
	600	
1260	MS Dist.	
	60	
	600	

W. B. Papageorge
W. B. PAPAGEORGE

TRAN 088188

IN 10 REV 11 68



Sido/796

1260 Howl Dist. b. 1.4
 60
 600
 600 4/1/12

No open label

1016
 1260 1.1.12 60
 600

1262 60
 600

1262 1.1.12 60
 600

1262 1.1.12 60
 600

1268 200

4415 500

Part 1

14.1.12
 2

3

6

6

TRAN 088189

MAY 1 1970

W. B. PAPAGEORGE - ST. LOUIS

APRIL 30, 1970

AROCLOR LABELS

H. S. BERGEN
D. A. OLSON
~~P. S. PARK~~
G. R. SIDO
C. B. SIGLER
J. E. SPRINGGATE

J. R. SAVAGE

Bob Sido is arranging for the modification of Aroclor labels to include reference to PCB in the environment. When the new labels are available, will you see that the plants order their supply and immediately begin using them on new packaged Aroclors?

Bob is also preparing a supplementary label for placing on packaged material now in inventory. When these labels are available, the plants should make sure they are added to the package before shipping. Will you arrange with C. Sigler's group regarding supplementary labeling of packaged Aroclor in outlying warehouses.

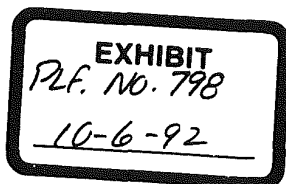
Don Olson is checking with G.E. and Westinghouse regarding the modification of Pyranol and Inerteen labels. As soon as agreement is reached, Bob Sido will make the necessary changes.

The need for using the modified labels is urgent and we should make every effort to expedite this change.

Original Signed by W. B. Papageorge

W. B. PAPAGEORGE

ms



TRAN 088197

Sido/798

Monsanto

NAME AND LOCATION

W. B. PAPAGEORGE - ST. LOUIS

DATE

APRIL 30, 1970

CC

H. S. BERGEN

D. A. OLSON

J. R. SAVAGE

SUBJECT

AROCLOR LABELING

TO

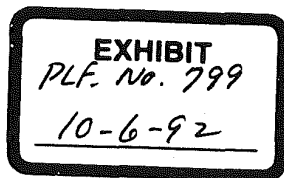
G. R. SIDO

A review of our inventory on 4-29-70 indicates about 6,000 units of packaged Aroclor products are now in various warehouses. These units will require a supplementary label which will contain the PCB statement we discussed. Will you arrange for procurement of the appropriate label to take care of this "one time" need?

W. B. Papageorge

W. B. PAPAGEORGE

ms



TRAN 088198

IN 10 NEW 11 85

Sido/799

WATER_PCB-SD0000077610

General Offices

May 4, 1970

PCB LABEL CHANGES

MR. W. B. PAPAGEORGE -
WPAPA

MESSRS:

H. S. BERGEN - HBERG
P. S. PARK - PPARK
J. R. SAVAGE - JSAVA
J. E. SPRINGGATE - JSPRI
E. P. WHEELER - EWHEE

Attached are layouts suggested for:

1. Modification of existing label inventories.
2. New product labels on these items.
3. A layout for distributor labels if they remain active.

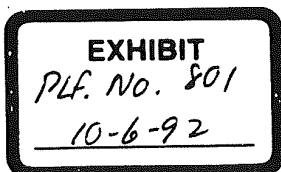
Please let me have your immediate endorsement. We are determining what label inventories Anniston and Krumrich have and will arrange to over-print those, if possible, and provide new labels with the environmental precaution.

We have printed the environmental contaminant message on 2 inch x 3 1/2 inch pressure sensitive labels and these are now available. Please advise where these are to be sent for use on packaged goods. You should instruct these locations to place the label on the lower left corner of the product label on each container. This will relate the message to other label print in the same way we plan to over-print remaining label inventories.

G. R. Sido

*to avoid shipping delay for lack of labels
(9) for part 2 of each unit + then do the other 9's*

TRAN 088200



Sido / 801



4-30-70
New label layout
Monsanto

TRAN 088201

AROCLOR.

1232

CHLORINATED POLYPHENYLS

CAUTION!

CONTAINS CHLORINATED
HYDROCARBONS

Avoid prolonged breathing of
vapors or mists.

Avoid contact with eyes or pro-
longed contact with skin.

If skin contact occurs, remove by
washing with soap and water.

Following eye contact flush
with water.

If clothing becomes soaked
with fluid, launder before
wearing again.

This product contains polychlorinated bi-
phenyls, which some studies have shown may
be an environmental contaminant. Extreme
care should be taken to prevent any entry in-
to the environment through spills, leakage,
use, disposal, vaporization or otherwise.

LOT NO. _____ PACKER _____

NET LEGAL **550** LBS. **249.48** KILOS

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A. 826.11-230.04/53

AROCLOR*

CHLORINATED POLYPHENYLS

CAUTION!

CONTAINS CHLORINATED
HYDROCARBONS

Avoid prolonged breathing of
vapors or mists.

Avoid contact with eyes or pro-
longed contact with skin.

If skin contact occurs, remove by
washing with soap and water.

Following eye contact flush
with water.

Clothing becomes soaked
with fluid, launder before
wearing again.

MANUFACTURED BY

Monsanto

TRAN 088202

This product contains polychlorinated bi-
phenyls, which some studies have shown may
be an environmental contaminant. Extreme
care should be taken to prevent any entry in-
to the environment through spills, leakage,
use, disposal, vaporization or otherwise.

PACKAGED AND DISTRIBUTED BY:

*4-30-70
New label layout for Distributors
if this label remains.
Sms.*

LOT NO. _____

PACKER _____

NET

LEGAL

LBS.

TARE

LBS.

GROSS

LBS.

*Trademark Reg. U.S. Pat. Off., Monsanto Company, and used under license.

826.13-280.10/

Mr. J. R. Savage - General Office

May 7, 1970

File

Messrs.

M. R. Papageorge

M. S. Bergen

G. R. Side

M. E. Gordon

VPAPA

HEHPS

OSIDO

WOOD

Mr. A. Nagel - WCK Plant

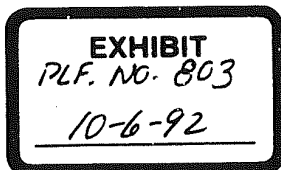
Mr. M. Mullally - Anniston Plant

Confirming our conversation, G.R. Side is sending you stick-on environmental warning labels for Arcelor 1221 through 1268. These should be placed on the lower left hand corner of the present label on all material presently in inventory. Unused labels are to be over-printed with the same legend. No material should be shipped without this legend after you have received the stick-on label. Similar labels will be supplied to outside warehouses by Carl Sigler. Thanks for your help.

J. R. Savage

nd

TRAN 088205



Side | 803

Xerox copies sent to:

Cotter Warehouse - Attn: C. H. Frazee
Los Angeles Whse. - Attn: Clem Letarte
Santa Clara Whse. - Attn: Brandt Woodward
Elizabeth Whse. - Attn: J.M. Nelson bcc: Bob Sido
Duro. Ind. - Attn: Al. Davis Bill Gordon ← 2437

May 8, 1970

Subject: Arcolex 1232, 1242, 1248, 1254, 1260

Before shipping any containers of the subject products to a customer, please apply the attached labels to the lower left corner of the product label as in the example. All incoming stock of the subject material in the near future must also be checked for warning labels.

I can not emphasize strongly enough the need for warning labels on all containers of the subject materials when they are shipped to a customer.

Very truly yours,

M. J. Quirk
Warehouse Coordinator

/mp

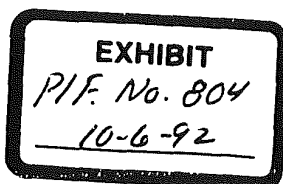
attachment

*How many still at
Mulligan?
#500 as of 5/20/70 (per Cathy)*

2/19/70 - 4298

*1000 labels being
sent to Dr. B. J. Mulligan
tonight (per Cathy)
per Cathy at Mulligan*

TRAN 088206



Sido / 804

General Offices

May 12, 1970

MR. H. L. PHILLIPS - ANNISTON
MR. W. B. PAPAGEORGE - WPAPA

PCB LABEL CHANGES

Over-Printing Labels in Inventory

MR. H. B. MULLALLY -
ANNISTON

Attached is a reproduction proof of the paragraph that is to be over-printed on Montar 1 labels and the following Arcolor labels:

1232	1260
1242	1262
1248	1268
1254	4465

The proof copy should be photographically reduced to a column width of 2 11/16 inches and it should be positioned in the lower left corner of the label, 3/8 inch from the bottom and centered left and right between the edge of the label and the vertical stripe. It should be printed black on the white label.

If your local printer does not use off-set techniques, this could be handled by letterpress, but in this case be sure you proof the copy he typesets before it is used, to insure no errors are made. Ten dollars per thousand is an average cost for such a job. The labels should be rewrapped, 500 per package, and one of the labels should be placed on the outside of each individual package. Care should be exercised to be certain that each package contains only one kind of product labels and only one net weight. Mixing them up could be disastrous.

Please proceed with this job without delay. As soon as your labels are over-printed, your only labeling problem will be to place the small stickers on finished goods inventories. All labels for these product labels on future orders will include this environmental statement along with the other precautions for handling these products.

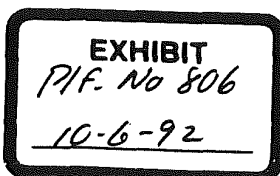
If you have any immediate needs for new labels to re-establish inventories, please submit request to us.

We will re-establish sample labels for these products including the desired paragraph so you can destroy these sample label inventories as soon as you receive replacements from the printer.

G. R. Side

/ms
Enclosure

TRAN 088207



Side / 806



10% Toluene

AROCLOR.

CHLORINATED POLYPHENYLS

CAUTION! COMBUSTIBLE
CONTAINS CHLORINATED HYDROCARBONS

Avoid prolonged breathing of vapors or mists.

Avoid contact with eyes or prolonged contact with skin.

Keep away from heat and open flame.

If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

In case of fire use water spray, foam, dry chemical or CO₂.

~~Flush spill area with water spray.~~

LOT NO. _____ PACKER _____

NET LEGAL **600** LBS. **272.16** KILOS

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A. 826.64.282.04/53

TRAN 088208

10% Toluene

AROCOR.

CHLORINATED POLYPHENYLS

1262

CAUTION! COMBUSTIBLE
CONTAINS CHLORINATED
HYDROCARBONS

Avoid prolonged breathing of
vapors or mists.

Keep away from heat and open
flame.

Avoid contact with eyes or
prolonged contact with skin.

If skin contact occurs, remove by
washing with soap and water.
Following eye contact flush
with water.

If clothing becomes soaked with
fluid, launder before washing
again.

In case of fire use water spray, foam, dry
chemical or CO₂.

~~Flush spill area with water spray~~

IBONS

This product contains polychlorinated bi-
phenyls, which some studies have shown may
be an environmental contaminant. Extreme
care should be taken to prevent any entry in-
to the environment through spills, leakage,
use, disposal, vaporization or otherwise.

laundry

or CO₂

LOT NO.

PACKER

NET LEGAL **600** LBS. **272.16** KILOS

MONSANTO COMPANY, ST. LOUIS, MISSOURI 63166, U.S.A.

826.61-310.93/53

TRAN 088209

WATER_PCB-SD0000077618

General Offices

May 19, 1970

PYDRAUL 625A

MAY 20 1970

DR. E. P. WHEELER - EWHEE

LABELING FILE

This note is to confirm conversation with Dr. Hunt in the Medical Department regarding toxicity characteristics of this reformulated product. It is also referred to as MCS 975.

Oral lethal dose on rats is 12,300 mg. per kilo - practically nontoxic.

Skin absorption on rabbits greater than 7,940 mg. per kilo - practically nontoxic.

Skin irritation on rabbits 2 out of 10.

Eye irritation - rabbits 2 out of 110.

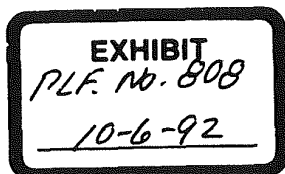
This product is made up of Aroclor 5442 - 51 1/2%, Santicizer 140 - 48.2%.

Labeling recommendation. Use the standard chlorinated hydrocarbons precaution. No need for environmental comments on the label.

G. R. Sido

mw

TRAN 061423



Sido / 808

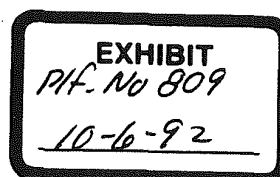
W. B. PAPAGEORGE - ST. LOUIS

MAY 27, 1970

PCB ENVIRONMENTAL PROBLEM
MAY SUMMARY

H. S. BERGEN
J. E. SPRINGGATE

- Plan presented to CMC on May 11, received favorable reaction.
- R. Keller, W. Papageorge and E. Wheeler met with Monsanto personnel, customers, co-producers and regulatory and advisory agencies in U.K., Belgium, Netherlands, Germany and Sweden to review PCB problem in Europe. Our plants and customers are responding to the importance of the problem, the co-producers are beginning to respond, the agencies in the U.K. are very interested, but will not act precipitously and the agencies in the Netherlands and Sweden are most likely to seek a ban or regulation of the use of PCB's.
- CED is actively working on projects for incineration, Aroclor distillation, HB-40 capacity increase, Santowax refining, phosphate ester and alkylated biphenyl facilities.
- Letters have been sent to Aroclor customers in Canada.
- Maximum PCB content of Food Grade Muriatic Acid has been set tentatively at 0.5 ppm, similar to possible FDA limit in milk.
- Labels for all PCB Aroclors and Montar 1 have been revised to include environmental statement. Revisions to Pyranol and Inerteen labels are delayed pending G.E. and Westinghouse concurrence. Pydraul labels will not be changed since all will be reformulated. Changes will be made to heat transfer fluids labels.



STR C05152

Side 809

- Further tests with incineration unit at John Zink Company, Tulsa, Oklahoma were conducted on Aroclor 1260 and Montar at temperatures exceeding 2000°F. Gas analysis will be made. Calcium in Montars could be detrimental to refractory lining in incinerator and stack.
- After receiving customers' approval, the Ministry of Natural Resources, Ontario, was given a list of Aroclor users in Ontario.
- J. R. Durland, Tokyo, informed of plan as accepted by CMC and was requested to develop plan for Japanese situation.

W. E. PAPAGEORGE

STR 005153

W. B. PAPAGEORGE - ST. LOUIS

MAY 27, 1970

H. S. BERGEN
J. R. FALLON
D. A. OLSON
J. R. SAVAGE

G. R. SIDO

It is my understanding that label revisions of Montar 1 and PCB-containing Aroclors have been accomplished and are now being implemented at the producing plants and warehouses.

We have not heard from General Electric or Westinghouse concerning the Pyranol and Inerteen labels.

Pydraul labels will not be altered since re-formulations will be made.

I believe it is appropriate that we now revise the Therminol labels to include the environment statement.

Will you arrange for revisions to labels for Therminol FR-0, Therminol FR-1, Therminol FR-2, Therminol FR-3 and Therminol FR-Lo Temp.

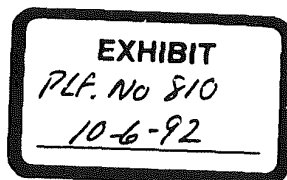
Will you also include on the labels the following statement:

"Contact Monsanto representative regarding disposal."

W. B. Papageorge

W. B. PAPAGEORGE

ms

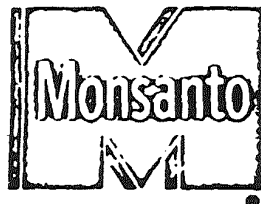


TRAN 088210

Sido / 810

Negative made and brown print made (6/8/70) No labels printed.

118/811
Sido



AROCLOR.

CHLORINATED POLYPHENYLS

1254

~~for other use~~

TRAN 005960

CAUTION!

CONTAINS CHLORINATED
HYDROCARBONS

Avoid prolonged breathing of
vapors or mists.

Avoid contact with eyes or pro-
longed contact with skin.

If skin contact occurs, remove by
washing with soap and water.

Following eye contact flush
with water.

If clothing becomes soaked
with fluid, launder before
wearing again.

This product contains polychlorinated bi-
phenyls, which some studies have shown may
be an environmental contaminant. Extreme
care should be taken to prevent any entry in-
to the environment through spills, leakage,
use, disposal, vaporization or otherwise.

EXHIBIT
PLF. No 811
106-92

LOT NO. _____ PACKER _____

NET LEGAL 60 LBS. 27.22 KILOS

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A.

826.13-280.12/53

~~FOR WASTE DISPOSAL to be let~~

General Offices

August 3, 1970

PYDRAUL

MR. W. S. CLARK - WCLAR
MRS. V. K. KOENIG
MR. M. P. LITTEKEN
MR. W. B. PAPAGEORGE - WPAPA

LABELLING FILE

AROCLOR

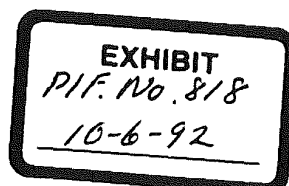
This note confirms my conversation with Bill Papageorge and Norm Johnson regarding chemical composition of Pydraul products. All of the domestic Pydraul products are being reformulated and none will contain PCB. They may contain Aroclors lower than 1232 or chlorinated terphenyls so they will require the chlorinated hydrocarbon standard paragraph.

In the export market one or two Pydraul products may contain some PCB, but the environmental statement should not be used. These safety hydraulic fluids are used in coal mine equipment and Monsanto hopes to get our competitors to agree to use of the PCB message if substitute formulations are not acceptable.

Some of these Pydraul products should carry the PCB environmental statement.

G. R. Sido

/ms



TRAN 088233

Sido | 818

Monsanto

(FROM NAME & LOCATION)

G. Robert Sido - General Offices

DATE

June 23, 1970

CC MR. W. P. PAPAGEORGE - WPAPA

SUBJECT

AROCLOR Sample Labels

REFERENCE

PCB LABEL CHANGES

TO

KRUMMRICH PLANT
Mr. R. Kuster

ANNISTON PLANT
MR. M. B. MULLALLY

Grace Stiles
Ben Williams

Howard Patrick

Don Mayer

Bob McCutchan

any
at
JFR

All Aroclor labels subject to the environmental change have been corrected and a supply of each new sample label has been forwarded to your plant.

This is your authorization to dispose of all unused sample labels not bearing this change, and as more are needed enter an order in your usual way.

[Signature]
G. Robert Sido
Manager - Labeling
and Registration

vk

TRAN 088217

EXHIBIT

P/F. No. 813

10-6-92

IN 10 REV 11 85

Sido | 813

WATER_PCB-SD0000077625

General Offices

July 15, 1970

INERTEEN AND PYRANOL LABELS

Your memos July 9 & 13, 1970

MR. W. D. PAPAGEORGE -

~~ANNISTON~~
WUPAPA

MESSRS:

P. G. DENIGNUS - PBENI
H. S. BERGEN - HBERG
D. A. OLSON - DOLSO
J. R. SAVAGE - JSAVA
M. B. MULLALLY - ANNISTON
O. MUTH - KRUMMRICH
J. J. KAGAN - JKAGA

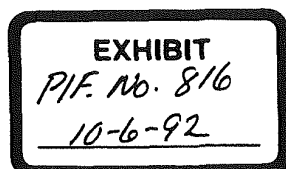
All of the Inerteen and Pyranol labels have been proofed at standard weights and they include the PCB environmental contaminant paragraphs accepted by Westinghouse and G.E., respectively.

By copy of this memo, I am asking Krummrich and Anniston plants to initiate label orders to establish inventories on these products they are manufacturing and shipping.

G. R. Sido

/mw

TRAN 088231



Sido / 816

J. R. Savage - General Office

September 23 1970

Mr. D.C. Malm JPQ Plant
✓ Mr. W.B. Papageorge

PCB POLLUTION

Mr. A. E. Peterson
J. F. Queeny Plant

Comments on the PCB situation at JPQ:

1. Central Drumming

We are now under an edict to eliminate all PCB's from our industrial fluid (Pydraul) line by the end of the first quarter of 1971. We therefore will not be using any PCB's in Central Drumming (note that Aroclor 5442 and 5432 are not PCB's). Therefore, we cannot justify capital in CD for curbs, etc. on this basis, although housekeeping or "routine" pollution considerations might still justify some expenditure.

It is certainly true that extreme care must be exercised to avoid losses during the next few months.

2. Heat Transfer Systems

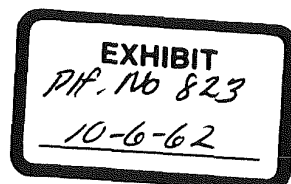
Any filling or topping off of these systems should be done with Therminol FR-1 (Aroclor 1242). We have begun converting our customers, but the word may not have reached Monsanto users who order fluid under Aroclor nomenclature. D.E. Roush (#42529) can answer any technical questions. FR-1 is no panacea, but is less of an environmental problem.

3. Aroclor 1232 in TSC1:

This service should be converted to 1221 if possible. Aroclor 1221 is relatively biodegradable, while 1232 is a blend of 1221 and 1242, which contains several per cent of very persistent isomers.

J. R. Savage

md



TRAN 036358

Sido | 823

Monsanto

FROM NAME & LOCATION: W. S. Clark - General Offices

DATE September 29, 1970

CC

SUBJECT NEW AROCLOR LABELS

REFERENCE

TO G. R. Sido
GSIDO

Please prepare the following new labels for our new line of Aroclors. These labels should be the same as our old labels except the statement on environmental contamination should be deleted, ~~as well as the words "chlorinated polyphenyls" which appear right below the product name.~~

ON 100 - 11.1
100 - 3211.
10/14

New Label	Container Size	Same as Old Label For:
Aroclor 6040	5 Gallon	Aroclor 1242
Aroclor 6040	55 Gallon	Aroclor 1242
Aroclor 6050	5 Gallon	Aroclor 1248
Aroclor 6050	55 Gallon	Aroclor 1248
Aroclor 6062	5 Gallon	Aroclor 1254
Aroclor 6062	55 Gallon	Aroclor 1254
Aroclor 6070	5 Gallon	Aroclor 1260
Aroclor 6070	55 Gallon	Aroclor 1260
Aroclor 6090	5 Gallon	Aroclor 4465
Aroclor 6090	55 Gallon	Aroclor 4465
Aroclor 5432	5 Gallon	Aroclor 1254
Aroclor 5432	55 Gallon	Aroclor 1254

use same wt. line

55# Net

590# Net

Delete PCB statement only.
W.S.C. - MFL 10/14/70
mg
change Net wt on these as shown.
W.S.C.-MFL mg

10/14/70 -
Labels removed as shown for Committee
R

TRAN 088237

IN-10 REV. 11-68

EXHIBIT
PIF. No. 824
10-6-62

Sido / 824

G. R. Sido

-2-

September 29, 1970

These labels should be sent to the Anniston, Alabama Plant, to the attention of Gerald Miller, the Production Supervisor. Minimum quantities should be prepared in all cases.

If for any reason it does not appear that these labels will be prepared by October 23, 1970, please let me know as soon as possible.

Willis S. Clark
Willis S. Clark
4-2518

/dbw

Walt Woychopf

Call Will Clark on Monday 10/12

TRAN 088238

Monsanto

LABEL AND RISK CLASSIFICATION REQUEST

Initiated by (Individual's Name)

Date Prepared

Locality No.

Division

Department

Date completed

1. IDENTIFICATION OF PRODUCT—To be filled in by Chemist.

1.1 Sales Name AROCOR 6062-10% XYLENE

1.2 Chemical Name (if product is a dye or pigment, give Color Index name and number, if any)

1.3 Common Names

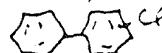
2. STRUCTURAL FORMULA AND COMPOSITION—To be filled in by Chemist.

Include impurities in statement of composition for mixtures, give percentage composition and structural formulas of principal components for solutions, give percentage solids and composition of solvent and solids, separately, each on basis of 100. Where applicable, give percentage of residual intermediates or starting materials, and unneutralized acid or alkali. Do not use sales names, identify substances by chemical name.

BLEND
34.3% AROCLOR 1251 *
55.8% AROCLOR 5460 **
10.0% ~~AROCOR~~ XYLENE

* MAINLY MANUFACTURED

B. PHENYL



** MAINLY POLYCHLORINATED

TERPHELYL



X + Y + Z = 4
AVG.

3. USES—To be filled in by Sales or Development

3.1 Will label or advertising make any claim for control of plants, animals, or micro-organisms? Yes ☐ No ☒

3.2 Is product intended for use as an additive to food for humans or animals? Yes ☐ No ☒

3.3 Is product intended for use as a component of container or equipment in contact with food? Yes ☐ No ☒

3.4 Is product intended for use as a drug or a component of a drug for human or animal use? Yes ☐ No ☒

3.5 Is product intended for use as a cosmetic or a component of a cosmetic? Yes ☐ No ☒

3.6 Is product to be packaged in a container intended or suitable for household use? Yes ☐ No ☒

4. PHYSICAL PROPERTIES—To be filled in by Chemist.

4.1 Appearance: Describe as powder, crystal, flake, granule, lump, paste, volatile solid, viscous liquid, mobile liquid, volatile liquid, compressed gas, self pressurized container, etc. Where applicable, give approximate mesh sizes of solids. VISC. LIQ. & CLOUD

4.2 Melting Point/
Solution Point: _____ °C.

4.3 Boiling Point: _____ °C.

4.4 Vapor Pressure: _____ psi at 100°F.

4.5 Solubility in water: NB g/100 ml

Solubility in water: NB g/100 ml
Completely miscible ☐ Immiscible ☒

4.6 Flash Point, Tag, Open Cup (for liquids and contents of self pressurized containers):

- FIRE POINT 80 °F

4.7 Specific Gravity: 1.375 @ 65°F

4.8 Odor (Describe): XYLENE TYPE

5. PHYSICAL HAZARDS: FLAMMABILITY—To be filled in by Chemist.

5.1 Ignition Temperature (Solids): Will product ignite and burn at an ambient temperature of 80°F. or less when subjected to friction, or to percussion, or to an electrical spark? Yes ☐ No ☒

5.2 Flame Propagation Rate (Solids): Will product ignite and burn with a self-sustained flame at a rate greater than 1/10 inch per second along its major axis? Yes ☐ No ☒

5.3 Flame Projection (Contents of self pressurized containers): Is a "flashback" (a flame extending back to the container) obtained at any degree of valve opening, or a flame projection exceeding 18 inches at full valve opening, when container is discharged at a flame from a distance of 6 inches? Yes ☐ No ☒

5.4 Is contact of product with combustible material liable to cause fire? Yes ☐ No ☒

HANDLE LIKE XYLENE

PHYSICAL HAZARDS: GENERATION OF PRESSURE—To be filled in by Chemist.

6.1 Will product explode when subjected to an electrical spark, or to percussion, or to flame? Yes ☐ No ☒

6.2 Is product liable to formation of explosive peroxides or other explosive decomposition products? Yes ☐ No ☒

6.3 Will product expel the closure of its container, or burst its container, when held at or below 130°F. for 2 days or less? Yes ☐ No ☒

6.4 Will product erupt from its opened container at a temperature of 130°F. or less, after having been held in the closed container at 130°F. for 2 days? Yes ☐ No ☒

6.5 Will product generate heat or pressure within its container through decomposition, spontaneous polymerization, exposure to light, heat, atmospheric moisture, or other means? Yes ☐ No ☒

6.6 If answer to 6.5 is "Yes", explain here and give preventive measures:

HANDLE LIKE XYLENE

6.7 Fire Extinguishing—Is water ineffective or dangerous? Yes ☐ No ☒
If answer to 6.7 is "Yes", recommend an alternate generally available extinguishing agent. ALSO FORM

TRAN 08538

11 83/ 12 70 ONLY TO EXTEND
OR OTHER PARTIAL
PRESSURE UP

(over) EXCEPT
FOR PARTIAL
PRESSURE OF

CARBON DIOXIDE
AND DRY CHEMICALS

EXHIBIT
PH. No 826
10-6-62

Side/826

7. PHYSICAL HAZARD: REACTIVITY (Include but not limited to the following)—To be filled in by Chemist

7.1 Is product a strong oxidizing agent or strong reducing agent?
Yes ☐ No ☒

7.2 Is contact of product with combustible material liable to cause fire?
Yes ☐ No ☐

7.3 Is product corrosive to inanimate surfaces?
Yes ☐ No ☒

7.4 Are there specific measures to be taken in handling, storage or use to assure safety?
Yes ☐ No ☐

7.5 Are there specific incompatibilities with any other material insofar as safety is concerned?
Yes ☐ No ☐

7.6 If answer to one or more of the above is "Yes", explain here and give preventive measures

1-HANDLE LINE
Xylene

8. HEALTH HAZARDS: HUMAN EXPERIENCE ONLY. To be filled in by Chemist.

To your knowledge, has skin or eye irritation or irritation of any kind been observed in research or manufacturing personnel exposed to this product, or in persons engaged in the transportation or use of this product? If so describe below. Check facts carefully. Do not repeat rumor or hearsay.

NO

9. HEALTH HAZARDS: ANIMAL TEST RESULTS. To be filled in by Medical Department.

9.1 Oral Toxicity, Albino rats: Single oral dose LD50

9.2 Skin Toxicity, Albino rabbits: LD 50 by single, 24 hour continuous skin contact.

9.3 Inhalation Toxicity, Albino rats: LC 50 by single, 1-hour continuous inhalation.

9.4 Skin Irritation, Albino rabbits: Primary irritations score

9.5 Eye Irritation, Albino rabbits: At any of the readings made at 24, 48 and 72 hours, was there: Discernable opacity or ulceration of the cornea other than a slight dulling of the normal luster? Yes ☐ No ☐

Inflammation of the iris other than slight deepening of the folds, or slight circum-corneal injection? Yes ☐ No ☐

A diffuse, deep-crimson red appearance of the conjunctivae, with individual vessels not easily discernable? Yes ☐ No ☐

An obvious swelling of the conjunctivae, including cornea and iris, with partial eversion of the lids? Yes ☐ No ☐

9.6 Corrosiveness, Albino rabbits: In 9.4 and 9.5 was structure of tissue at sight of contact destroyed or changed irreversibly in 24 hours or less? If so, check one or both: Intact skin ☐ Eye ☐

9.7 Source of preceding information

9.8 Suggested statements for warning label

Same as Anclor 5466
plus proper warning
for 10% Xylene
E

10. RESALE PRODUCTS—To be filled in by Marketing Group

Give precautionary statements and storage or handling instructions, if any, used on label by supplier:

USE STANDARD STATEMENT

FOR CHLORINATED HYDROCARBON.

Points of competitive manufacture

None

Value per pound or gallon \$ 16.020 / LB

11. DEPARTMENT OF TRANSPORTATION CLASSIFICATION. To be filled in by Distribution Department.

Explosive: Class A ☐
B ☐
C ☐

Poison: Class A ☐
B ☐
C ☐

Flammable Liquid ☐
Flammable Solid ☐
Oxidizing Material ☐

Corrosive Liquid ☐
Compressed Gas ☐
Combustible Liquid ☐

Other (Please state)

12. LABELS REQUIRED

DOT Label

Special Marking

Monsanto Label

13. SHIPPING INSTRUCTIONS

Markable

Yes ☐ No ☐

Maximum by express

Maximum by passenger aircraft

Maximum by cargo aircraft

14. FREIGHT CLASSIFICATION: HAZARD CLASSIFICATION

Rail

Truck

Air

Water

TRAN 088535

PCB
Serial: last shipment label. Date sent, shipping Bk
initials for 1st and 2nd parties
initials on the 1st label

PCB comparison labels
under terminal

PCB LBL: 1020/52 2" x 3 1/2"

Printed May 11, 1970 - How many?

How shipped?

When?

Write Dupical LBL 1149/53 2 1/2 x 5 3/4
Printed Aug 3, '71

ATTENTION! Do not use in system involving
primary, 3rd + 3rd/4th/5th etc etc 534 x 53
Printed! Sept 8, 1971 LBL N. 1150 Bull 84

one printing of creating label with these!

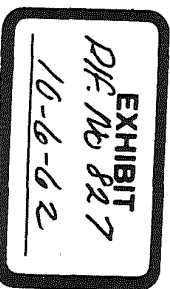
NOTES LBL 1152/52

can a ATTENTION! accept no copy about
- contained the original the original -

get shipping destination on each

TRAN 088257

also send up on 811.01 = 245.11/53



5120 | 827

4/20/70 BILL SAVAGE G.O.

DATE ORDERED 5/1/70
SIGNATURE

MONSANTO COMPANY

PURCHASING DEPARTMENT

800 North Lindbergh Boulevard Saint Louis, Missouri 63164

DATE RECEIVED 5/1/70
VOUCHER NUMBER
WORK NUMBER
SALES TAX
USE TAX
EXEMPT

James Mulligan Printing Company

MONSANTO COMPANY

Instructions to follow

→ - FLOWN

Bill Larkin sent
cassinated labels to
3 Mulligan for chips

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE
1	6,000	only	Environmental Label No. 1020/33 2" x 3-1/2" Red on white	/M 10.69
			Negative charge	2.50
			CONFIRMATION (repro from York)	
			1 ms to Laminated at York 5/19/70	
			4500 steel at 10/70	

DIV	SECTION	SUB	CLASS	MATERIAL	TRAN	AMOUNT	VENDOR NO.	QUANTITY	UNIT COST	RECEIVING REPORT
1314	516	1719	2021	2224	30	31.29	40-43	4533	5441	CL. NO.
										17.44

Page
44
16-72
3-72

This product contains polychlorinated bi-phenyls, which some studies have shown may be an environmental contaminant. Extreme care should be taken to prevent any entry into the environment through spills, leakage, use, disposal, vaporization or otherwise.

1020/33

TRAN 088258

Copy to Mr. Hogue 3-16-70
 gm

4/30/70 - 6000 ordered for
 20000 lbs. and 2 plants.
 (Krummrich & Hummel)

This product contains polychlorinated bi-phenyls, which some studies have shown may be an environmental contaminant. Extreme care should be taken to prevent any entry into the environment through spills, leakage, use, disposal, vaporization or otherwise.

1020 53

Bill Gordon took care
 of 10000.
 10000 were sent to Amistar (Printed 5/11/70)
 on 5/20/70.

Balance of 4500 sent to
 Krummrich Rt. 5/22/70.
 (To be put on all AFOLCERS cannot and in inventory)
 1232, 1242, 1248, 1254, 1260, 1262, 1268, 4465, + 1070
 on 1260, 1262 + 1254

7/9/69 - 1000 - ordered Krummrich Plant	✓
7/30/70 - 2000 ordered	✓
12/2/70 - 1000	✓
12/29/70 - 3000	✓
1/10/71 - 5000	✓

TRAN 088259

DATE **8/25/71** REQUESTOR'S NAME AND LOCATION **G. P. TAYLOR** DEPT **B2MK** PARTY AUTHORIZED SIGNATURE **[Signature]** VOUCHER NUMBER **10000**

MONSANTO COMPANY
PURCHASING DEPARTMENT

800 North Lindbergh Boulevard Saint Louis, Missouri 63166

SALES TAX
USE TAX
EXEMPT

MONTH **8-7** YEAR **71**

SUPPLIER
- IF KNOWN

James Mulligan Printing Company

MONSANTO COMPANY
W. G. Krumrich Plant
Sauget, Illinois 62201

Attn: Mr. Elmo Campbell

3

ITEM	QUANTITY	UNIT	DESCRIPTION	
1	8,000		only ATTENTION Food Contamination Label No. 1150/53	
			Red on White 5-3/8" x 5-3/8"	/M 24.29
			Negative and brown print charge	2.50
			Importation	
			(John Jr. picked up layout, and York to send repro direct.)	

NOTE: Please send 500 labels by CAS to -

Mr. Glen P. Taylor, Building B2MK
Monanto Company, 800 North Lindbergh
St. Louis, Missouri 63166

DIV.	ACCOUNT	CLASS	MATERIAL	TRANS	AMOUNT	VENDOR NO	QUANTITY	UNIT COST	RECEIPT NO
13-14	15-16 17-19 20-21	22-24	25-29	30	31-39	40-45	46-53	54-61	62-68

02-03-826.12-630

PU-50 REV. 4-66

REQUESTOR'S COPY
(FILE OR HOLD UNTIL NUMBERED COPY IS RETURN)

*Copy to Mr. Pogue
3-16-72
[Signature]*

TRAN 088260

ATTENTION

DO NOT USE IN ANY SYSTEM INVOLVING
PROCESSING OR HANDLING OF:

Food or food related products;
Food wrapping or container materials;
Pharmaceuticals or
Animal feed stuffs.

ANY CONTACT MAY CONTAMINATE
THESE ITEMS TO THE EXTENT
THEY MUST BE DESTROYED.

Printed 9/8/71

*Copy of Don Pogue
3-16-72
for*

TRAN 088261

MONTH	NUMBER
8-7	8-1

Attn: MR. M. B. Mullally
Anniston, Alabama 36201

— F. KNOW

3

~~02-09-912-00-550~~

1154/53

9/2, 17

Copy to Don Logan
3-16-72
mm

PETIOE Cakes for PROCLERS
Only (Christen) 12-2-12, 2-12-13
4" x 4" Red or White - Supplemental
Cakes being prepared for S. Clark
(10, on main for Christen & Joe
for J. Ragon. 12-2-12)

COPY
IT IS RETURNED

TRAN 088262

NOTICE

DO NOT USE IN PRODUCTS CONNECTED
WITH PROCESSING, HANDLING OR
STORAGE OF:

Food or Food related products
Food wrapping or container materials
Animal Feed
Potable Water
Pharmaceuticals

1154/53

Printed 10/10/71
11/2/71 - 10,000 and end Anniston Dist.

Copy to Don Pogue
3-16-72 gsm

TRAN 088263

8/20/71 W. B. PAPAGEORGE DEPT B2SK
 MONTANTO COMPANY
 PURCHASING DEPARTMENT
 800 North Lindbergh Boulevard Saint Louis, Missouri 63166

PART AUTHORIZED SIGNATURE: [Signature]
 DATE: 8-25-71
 PURCHASE ORDER NO.:
 SALES TAX: []
 USE TAX: []
 EXEMPT: []

CREDIT REQUIRED: ASAP
 ORDER NUMBER:
 MONTH: 8-7
 YEAR: 71

James Mulligan Printing Company
 MONTANTO COMPANY
 W. G. Krumrich Plant
 Bldg. BK - Label Storage
 Sauget, Illinois 62201

- IF KNOWN

3

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE
1	75,000	only	WASTE DISPOSAL Label No. 1149/53 Red on White 2-1/2" x 5-3/8"	/M 8.55
			Negative and Brown Print charge	2.50
			(Camera ready work attached)	
CONFIRMATION (work sent in 8/25/71)				

DIV		ACCOUNT		CLASS	MATERIAL	TRAN	AMOUNT	VENDOR NO.	QUANTITY	UNIT COST	RECEIVING REPORT
		PT	MAIN	SUB							PR. CR. NO.
13-14	15-16	17-19	20-21	22-24	25-29	30	31-39	40-45	46-53	54-61	52-68
02-03-811.00-603							Being run 8/26/71 to complete 4 language label order!				

PU-50 REV. 4-64

REQUESTOR'S COPY
(FILE OR HOLD UNTIL NUMBERED COPY IS RETURNED)

am 15 Don Pogue
 3-16-72

the Waste Disposal order
 from 75,000 to 80,000 This
 will complete the combination
 for the 4-language labels
 11:30 AM 8/30/71

TRAN 088264

WASTE DISPOSAL

Used polychlorinated biphenyl fluids may be returned freight
prepared for proper incineration at 3c per pound

Ship to: Supervisor Dept. A-246
MONSANTO COMPANY
SAUGET, ILLINOIS 62201

11:49 53

Printed 9/8/71

*com E
Don Pryor
3-16-72
Don*

TRAN 088265

Monsanto

FROM (NAME & LOCATION)

General Offices

DATE April 1, 1971

SUBJECT MCS 1109

REFERENCE Labeling Development Products

TO : MR. D. R. POGUE -
DPOGU

cc. MESSRS:

J. R. FALLON - JFALL

G. W. KASTEN

A. E. LEISY - KRUMMRICH

W. B. PAPAGEORGE - WPAPA

W. R. RICHARD - WRICH

① *Dr. J. R. Fallon*
Dr. G. W. Kasten
Dr. A. E. Leisy
Dr. W. B. Papageorge
Dr. W. R. Richard

All chlorinated biphenyl products must carry the standard precaution statement. Some of the more persistent ones also carry an environmental paragraph. Every container must also have the product name, our company name and address, the net weight and lot number.

When you use different names for the same chemical composition, the options are:

- 1) Establish inventory of labels under each name
- 2) Mark, stamp or stencil the variable information and stick the attached caution label on each package.

Option 2 is more expensive. Package appearance is inferior and we have less assurance that all containers will be labeled properly. Proper handling of generic descriptions when trademarks are stenciled on containers is practically impossible.

Every package must contain the information shown on the attached Aroclor 1221 label. Each new formulation and every product sold under a different name must have a "Label and Freight Classification Request" filled out on it. Attached is a copy of this information sheet used by the Distribution Department to establish the record. With this, label copy can be established and option 1 or 2 specified.

G. R. Sido

/mw
Enclosure

Caution! Contains chlorinated hydrocarbons

Avoid prolonged breathing of vapors or mists.

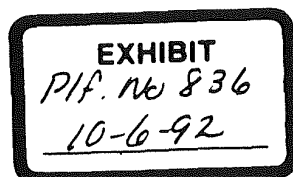
Avoid contact with eyes or prolonged contact with skin.

If skin contact occurs, remove by washing with soap and water.
Following eye contact flush with water.

If clothing becomes soaked with fluid, launder before wearing again.

TRAN 088529

IN 10 REV 11 83



Sido | 836

WATER_PCB-SD0000077641



AROCLO[®] 1221

CHLORINATED POLYPHENYLS

CAUTION!

CONTAINS CHLORINATED HYDROCARBONS

Avoid prolonged breathing of vapors or mists.
Avoid contact with eyes or prolonged contact
with skin.

If skin contact occurs, remove by washing with
soap and water. Following eye contact flush
with water.

If clothing becomes soaked with fluid, launder
before wearing again.

LOT NO. _____ PACKER _____

NET	LEGAL	520	LBS.	235.87	KILOS
------------	-------	------------	------	---------------	-------

MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A. 826.10-225.05/53

TRAN 088530

Initiated by (Individual's name)

Date Prepared

Docket No.

Division

Department

Date completed

1. IDENTIFICATION OF PRODUCT—To be filled in by Chemist.

1.1 Sales Name

1.2 Chemical Name (if product is a dye or pigment, give Color Index name and number, if any)

1.3 Common Names

2. STRUCTURAL FORMULA AND COMPOSITION—To be filled in by Chemist.

Include impurities in statement of composition. For mixtures, give percentage composition and structural formulas of principal components. For solutions, give percentage solids and composition of solvent and solids, separately, each on basis of 100. Where applicable, give percentage of residual intermediates or starting materials, and unneutralized acid or alkali. Do not use sales names. Identify substances by chemical name.

3. USES—To be filled in by Sales or Development

3.1 Will label or advertising make any claim for control of plants, animals, or micro-organisms? Yes ☐ No ☐3.2 Is product intended for use as an additive to food for humans or animals? Yes ☐ No ☐3.3 Is product intended for use as a component of container or equipment in contact with food? Yes ☐ No ☐3.4 Is product intended for use as a drug or a component of a drug for human or animal use? Yes ☐ No ☐3.5 Is product intended for use as a cosmetic or a component of a cosmetic? Yes ☐ No ☐3.6 Is product to be packaged in a container intended or suitable for household use? Yes ☐ No ☐

4. PHYSICAL PROPERTIES—To be filled in by Chemist.

4.1 Appearance. Describe as powder, crystal, flake, granule, lump, paste, volatile solid, viscous liquid, mobile liquid, volatile liquid, compressed gas, self pressurized container, etc. Where applicable, give approximate mesh sizes of solids.

4.2 Melting Point/
Solution Point: °C.

4.3 Boiling Point: °C.

4.4 Vapor Pressure: psi at 100°F.

4.5 Solubility in water: g/100 ml

Solubility of water in: g/100 ml
Completely miscible ☐ Immiscible ☐

4.6 Flash Point, Tag Open Cup (For liquids and contents of self pressurized containers): °F

4.7 Specific Gravity:

4.8 Odor (Describe):

5. PHYSICAL HAZARDS: FLAMMABILITY—To be filled in by Chemist.

5.1 Ignition Temperature (Solids): Will product ignite and burn at an ambient temperature of 80°F. or less when subjected to friction, or to percussion, or to an electrical spark? Yes ☐ No ☐5.2 Flame Propagation Rate (Solids): Will product ignite and burn with a self-sustained flame at a rate greater than 1/10 inch per second along its major axis? Yes ☐ No ☐5.3 Flame Projection (Contents of self pressurized containers): Is a "flashback" (a flame extending back to the container) obtained at any degree of valve opening or a flame projection exceeding 18 inches at full valve opening, when container is discharged at a flame from a distance of 6 inches? Yes ☐ No ☐5.4 Is contact of product with combustible material liable to cause fire? Yes ☐ No ☐

6. PHYSICAL HAZARDS: GENERATION OF PRESSURE—To be filled in by Chemist.

6.1 Will product explode when subjected to an electrical spark, or to percussion, or to flame? Yes ☐ No ☐6.2 Is product liable to formation of explosive peroxides or other explosive decomposition products? Yes ☐ No ☐6.3 Will product expel the closure of its container, or burst its container, when held at or below 130°F. for 2 days or less? Yes ☐ No ☐6.4 Will product erupt from its opened container at a temperature of 130°F. or less, after having been held in the closed container at 130°F. for 2 days? Yes ☐ No ☐6.5 Will product generate heat or pressure within its container through decomposition, spontaneous polymerization, exposure to light, heat, atmospheric moisture, or other means? Yes ☐ No ☐

6.6 If answer to 6.5 is "Yes", explain here and give preventive measures

6.7 Fire Extinguishing—Is water ineffective or dangerous? Yes ☐ No ☐
If answer to 6.7 is "Yes", recommend an alternate generally available extinguishing agent.

7. PHYSICAL HAZARDS: REACTIVITY (Including but not limited to the following)—To be filled in by Chemist.

- 7.1 Is product a strong oxidizing agent or strong reducing agent? Yes ☐ No ☐
- 7.2 Is contact of product with combustible material liable to cause fire? Yes ☐ No ☐
- 7.3 Is product corrosive to inanimate surfaces? Yes ☐ No ☐
- 7.4 Are there specific measures to be taken in handling, storage or use to assure safety? Yes ☐ No ☐
- 7.5 Are there specific incompatibilities with any other material insofar as safety is concerned? Yes ☐ No ☐
- 7.6 If answer to one or more of the above is "Yes", explain here and give preventive measures.

8. HEALTH HAZARDS: HUMAN EXPERIENCE ONLY. To be filled in by Chemist.

To your knowledge, has skin or eye irritation or irritation or toxicity of any kind been observed in research or manufacturing personnel exposed to this product or in persons engaged in the transportation or use of this product? If so describe below. Check facts carefully. Do not repeat rumor or hearsay.

9. HEALTH HAZARDS: ANIMAL TEST RESULTS. To be filled in by Medical Department.

- 9.1 Oral Toxicity, Albino rats: Single oral dose LD50
- 9.2 Skin Toxicity, Albino rabbits: LD50 by single, 24 hour continuous skin contact
- 9.3 Inhalation Toxicity, Albino rats: LC50 by single, 1 hour continuous inhalation.
- 9.4 Skin Irritation, Albino rabbits: Primary irritations score
- 9.5 Eye Irritation, Albino rabbits: At any of the readings made at 24, 48 and 72 hours, was there discernable opacity or ulceration of the cornea other than a slight dulling of the normal luster? Yes ☐ No ☐
- Inflammation of the iris other than slight deepening of the folds, or slight circumcorneal injection? Yes ☐ No ☐
- A diffuse, deep crimson red appearance of the conjunctivae, with individual vessels not easily discernable? Yes ☐ No ☐
- An obvious swelling of the conjunctivae, including cornea and iris, with partial eversion of the lids? Yes ☐ No ☐
- 9.6 Corrosiveness, Albino rabbits: In 9.4 and 9.5 was structure of tissue at sight of contact destroyed or changed irreversibly in 24 hours or less? If so, check one or both: Intact skin ☐ Eye ☐

9.7 Source of preceding information

9.8 Suggested statements for warning label

10. RESALE PRODUCTS—To be filled in by Marketing Group

Give precautionary statements and storage or handling instructions, if any, used on label by supplier.

Points of competitive manufacture

Value per pound or gallon \$

11. DEPARTMENT OF TRANSPORTATION CLASSIFICATION. To be filled in by Distribution Department.

- Explosive: Class A ☐ B ☐ C ☐
- Poison: Class A ☐ B ☐ C ☐
- Flammable Liquid ☐
- Flammable Solid ☐
- Oxidizing Material ☐
- Corrosive Liquid ☐
- Compressed Gas ☐
- Combustible Liquid ☐

Other (Please state)

12. LABELS REQUIRED

DOT Label _____ Special Marking _____ Monsanto Label _____

13. SHIPPING INSTRUCTIONS

Maritime Yes ☐ No ☐ Maximum by express _____ Maximum by passenger aircraft _____ Maximum by cargo aircraft _____

14. FREIGHT CLASSIFICATION: HAZARD CLASSIFICATION

Rail _____ Truck _____ Air _____ Water _____

TRAN 088532

Pentachlorobiphenyl (PCB) Waste Disposal
on labels on containers of:

Electrical Grade Aroclor's

1232, 1242, 1248, 1254, 1260, 1262,
1268, 4465

Inerteen brands for Westinghouse

Transformer Pyronol brands for General Electric

Electrical Grade Capacitor Fluids.

Therminol heat Transformer products.

WASTE DISPOSAL

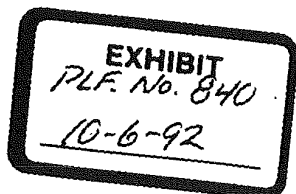
Used polychlorinated biphenyl fluids may be returned freight prepaid for proper incineration at 3c per pound.

Ship to: Supervisor Dept. A-246
MONSANTO COMPANY
SAUGET, ILLINOIS 62201

1149-53

Printed August 3, 1971

TRAN 088256



Side 840

WATER_PCB-SD0000077645

OCT 15 1971

ANNISTON

FROM NAME & LOCATION

G. R. Side - GSDC

DATE September 24, 1971

SUBJECT AROCLOR PLASTICIZER USE NOTICE

REFERENCE Supplemental Label 1154/53

TO

B3NE -
MR. W. S. CLARK

4-25-8

cc MESSRS:

1060 - M. B. MULLALLY
B2NJ - J. J. KAGAN
B2SK - W. B. PAPAGEORGE
C1NA - P. S. PARK
B2ND - J. R. SAVAGE
B2NB - J. E. SMITH

Per your September 17 request, 8,000 red and white 4" x 4" labels with the attached copy are being printed and will be delivered to the Anniston Plant, Attention: M. B. Mullally, and 2,000 similar labels will be delivered to J. J. Kagan for forwarding to warehouse locations for application to finished goods.

These labels are to be used on finished goods inventories for:

750 Aroclor 1221 Plasticizer Grade 300

1000 - Aroclor 5432 250

400 - Aroclor 5442 0

1000

Aroclor 5460 - No net use - Printed on Bags

Aroclor 6000 Series

Net less than 500 or more than 1000 labels of the 6000 series
Until existing Aroclor label inventories are exhausted, the Anniston Plant is to use this label, 1154/53, with the proper product label on each container. By copy to M. B. Mullally, I am asking for some assessment of existing label inventories for these products. We may be able to over-print some of them to eliminate the separate label application if the inventories are exorbitant.

All new Aroclor labels of the numbers specified in this memo will be modified to include this notice message, eliminating the need for the separate label 1154.

These Aroclor products will not contain an environmental statement and they will not contain instructions regarding disposal.

also 9,71
5060
in some categories
per N.2 Clark
& Ego
/mw

G. R. Side

not stated
NOTICE 1154/53
Ann

TRAN 088292

EXHIBIT

PLF. No. 844

10-6-92

Side 844

Monsanto

FROM NAME & LOCATION:

W. S. Clark

DATE

September 23, 1971

SUBJECT

Aroclor Labels

REFERENCE

TO

R. G. SIDO

10/1/71
Plasticizers
Include NOTICE copy 11/54/55 gms
proposed label layout attached gms
Illustrated Information and CAUTION

Could you please modify the following labels so that they will include the new food/water applications cautionary statement. The attached Aroclor 1221 label looks fine to me.

1221B

Aroclor 1221, 5432, 5432-10%, 6040, 6050, 6062, 6062-10%, 6070, 6070-10% xylene, 6090, 5442.

The bags for 5460 and 5060 also should be modified to include this statement.

Thanks.

W.S.

W. S. Clark

WSC:gw

10-1-71
sent to Earl Patten! gms

TRAN 088293

10/15/71
1000 labels of each
ordered per
Anniston P.D.
Q.

Not necessary to change the name of Fluids is changing the name of the 1221.

PLASTICIZER GRADE

AROCLOR

1221

CHLORINATED POLYPHENYLS BY

Monsanto

CAUTION!

CONTAINS CHLORINATED
HYDROCARBONS

Avoid prolonged breathing of vapors
or mists.

Avoid contact with eyes or prolonged
contact with skin.

If skin contact occurs, remove by
washing with soap and water.
Following eye contact flush with water.

If clothing becomes soaked with fluid,
launder before wearing again.

NOTICE

DO NOT USE IN PRODUCTS CONNECTED
PROCESSING, HANDLING OR STORAGE OF
Food or Food related products
Food wrapping or container
materials
Animal Feed
Potable Water
Pharmaceuticals

TRAN 088294

LOT NO.

PACKER



NET/LEGAL

520 LB. 235.87 KG.

MONSANTO COMPANY, ST. LOUIS, MISSOURI 63166, U.S.A.

826.10-225.07/53

B3NE
Willis S. Clark

TRAN 088295

Monsanto

FROM (NAME & LOCATION) W. S. Clark - General Offices - B3NE

DATE September 17, 1971

cc J. J. Kagan - B2NJ
W. B. Papageorge - B2SK
P. S. Park - C1NA
J. R. Savage - B2NB
J. E. Smith - B2NB

SUBJECT

AROCLOR CAUTION LABEL
PLASTICIZER Grade

REFERENCE

TO G. R. Sido
GSEC

Plasticizer Grade
1221

Please develop as soon as possible a caution label to be used on packaged Aroclor plasticizer products. This is considered an urgent project in the Organic Division. We would like to be able to distribute 10,000 of these as soon as possible, but under any circumstances no later than 9/30/71.

The following wording should appear on this label:

AROCLOR®
Plasticizer/Resin Modifier

ATTENTION ~~PLEASE DO NOT USE IN CONNECTION WITH~~ NOTICE
Do not use in connection with processing or handling of: or storage of:

Food or Food-related products
Food wrapping or container materials
Animal Feed
Potable Water
Pharmaceuticals

Please make sure that the appearance of this label is significantly different from the label 1150/53 developed in the last couple of months for Therminol. These labels are for two distinctly different products and we must not have anyone using them interchangeably by mistake.

Bill Papageorge, Phocion Park and I would all like to see a mock-up prior to the final printing. Could you give me some idea when a mock-up might be ready.

Thanks a lot.

for
Nov 9/71

include 5060

send 4x4 mock up for present finished Grade marker and new Aroclor 1221 plasticizer grade mock up to

Willis Clark
Willis S. Clark

all plasticizer grades will go out of container plant.

TRAN 088296

*4x4
1154/53
9/27/71
10,000 labels made
per attention*

Monsanto

FROM (NAME & LOCATION) R. M. McCutchan - Krummrich

DATE February 23, 1972

SUBJECT Summary of Labeling of
Drummed Aroclor Products

REFERENCE

TO : T. N. Carrico
Elmo Campbell

cc: A. E. Leisy
O. N. Mueth
W. B. Papageorge - G.O.
C. Paton - G.O.
J. R. Savage - G.O.
G. R. Sida - G.O.
B. R. Williams

Labeling of Aroclor products has been changing so frequently that it has become confusing. This memo attempts to summarize the labeling that is presently required.

1. On the following pages I have indicated FIVE different informational messages on actual labels. I have also indicated which of these messages are to appear on which products. (See labels and list.)
2. At one time or another all five of these messages have been printed as small separate stick-on labels. Many of the main labels now incorporate the proper statements. When this is the case, do not duplicate the statement by adding the small labels on the top of the drum. When one or more of the messages is not included on the main label, then do add the appropriate separate labels to the top of the drum.
3. Export shipments do not have to have the "Waste Disposal" information. It is acceptable for it to be there, however.
4. If a customer asks that a product be marked with a name for which there is no label, it will be stenciled as has been the practice. All the appropriate statements must be included. The easiest solution in most cases is to take a main label that includes the right statements and cut the name off.

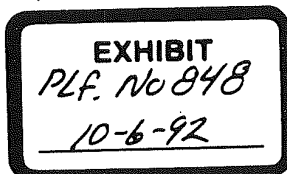
If anyone has questions or contradictory instructions, please call me.

R M McCutchan
R. M. McCutchan

mh

Attachments

TRAN 004511



12 10 00 11-00

Sida 848

WATER_PCB-SD0000077651

#4 ELECTRICAL GRADE

AROCLORTM

1016

CHLORINATED POLYPHENYLS BY

Monsanto

CAUTION!
CONTAINS CHLORINATED
HYDROCARBONS

Avoid prolonged breathing of vapors
or mists.

Avoid contact with eyes or prolonged
contact with skin.

If skin contact occurs, remove by
washing with soap and water.
Following eye contact flush with water.

If clothing becomes soaked with fluid,
launder before wearing again.

This product contains polychlorinated biphenyls,
which some studies have shown may be persistent,
an environmental contaminant and, possibly, in-
jurious to certain forms of bird, aquatic and animal
life. Extreme care should be taken to prevent any
entry into the environment through spills, leakage,
use, disposal, vaporization or otherwise.

Contact your Monsanto Representative regarding
reclamation of used fluid.

WASTE DISPOSAL

Used polychlorinated biphenyl fluids may be re-
turned freight prepaid for proper incineration at
3¢ per pound.

Ship to: Supervisor Dept. A-246
MONSANTO COMPANY
SAUGET, ILLINOIS 62201

TRAN 004512

LOT NO.

PACKER



NET
LEGAL

600 LB. 272.16 KG.

TARE 48 LB. 21.77 KG.
GROSS 648 LB. 293.93 KG.

MONSANTO COMPANY, ST. LOUIS, MISSOURI 63166, U.S.A.

826.12-016.01/53

THERMINOL

FR-I

HEAT TRANSFER MEDIUM BY

Monsanto

ATTENTION

DO NOT USE IN ANY SYSTEM INVOLVING
PROCESSING OR HANDLING OF:

Food or food related products;
Food wrapping or container materials;
Pharmaceuticals or
Animal feed stuffs.

ANY CONTACT MAY CONTAMINATE
THESE ITEMS TO THE EXTENT
THEY MUST BE DESTROYED.

CAUTION!

CONTAINS CHLORINATED
HYDROCARBONS

Avoid prolonged breathing of vapors
or mists.

Avoid contact with eyes or prolonged
contact with skin.

If skin contact occurs, remove by
washing with soap and water.
Following eye contact flush with water.

If clothing becomes soaked with fluid,
launder before wearing again.

This product contains polychlorinated biphenyls,
which some studies have shown may be persistent,
an environmental contaminant and, possibly, in-
jurious to certain forms of bird, aquatic and animal
life. Extreme care should be taken to prevent any
entry into the environment through spills, leakage,
use, disposal, vaporization or otherwise.

WASTE DISPOSAL

Used polychlorinated biphenyl fluids may be re-
turned freight prepaid for proper incineration at
3¢ per pound.

Ship to: Supervisor Dept. A-246
MONSANTO COMPANY
SAUGET, ILLINOIS 62201



NET
LEGAL

600 LB. 272.16 KG.

TARE 48 LB. 21.77 KG.
GROSS 648 LB. 293.93 KG.

LOT NO.

PACKER

MONSANTO COMPANY, ST LOUIS, MISSOURI 63166, U.S.A.

811.01-245.11/53

TRAN

004513

PRODUCTINFORMATION REQUIRED

Capacitor 21
Inertex 54201 CF
Pyranol 1499
Aroclor 1252 (blend)
Aroclor 1242 EG
Aroclor 1248 EG
Aroclor 1254 EG
Aroclor 1260 EG
Aroclor 1016

- #1 - "Caution! Contains chlorinated hydrocarbons"
#2 - "This product contains polychlorinated biphenyls, etc."
#3 - "Waste Disposal" statement
#4 - "Electrical Grade" designation

Pyranol A15038
Inertex PPO
Inertex 70/30
Inertex 54201 KA
Inertex 54201 CA
Inertex 54201 KJ
Inertex 100-42
MCS-236
MCS-1023
MCS-1109
Turbinol 153
Santovac I
Santovac II

- #1 }
#2 } all as above, except omit #4.
#3 }

Therminol FR-1
Therminol FR-0
Therminol Low-Temp

- #1 }
#2 } as above
#3 }
#5 - "attention", etc.

Difenoil Chlorado
(grade codes 244,
284, and 214)

- #1 }
#2 } as above
#4 }

TRAN 004514

Monsanto

yellow

FROM : LOCATION: G. R. Sido - G5EC

DATE April 10, 1972
SUBJECT PCB WARNING STATEMENT
TO : A2SE -
MR. W. A. STEWART

cc MESSRS:
A2NA - E. GREENE
A2SE - H. W. HAYDEN
S. O. MORRISON
B2NK - W. B. PAPAGEORGE
B2SA - J. STAPLETON
A2SF - R. G. WITTERSCHEIN

All Chlorinated Polyphenyl product labels include the waste disposal statement shown on the attached Aroclor 1260 product label. I question the decision to withhold the offer from any customer. If any clarification is needed on exported containers, I suggest adding the statement "In case of leak or spill, contact your Monsanto agent." If provisions are made for proper incineration in other areas our agents could provide better options. Bill Papageorge is investigating other leak or spill remedial action possibilities that Monsanto agents might suggest to forestall careless extension of problems.

The signal word WARNING shown on the PCB text attached to your memo should be changed to "Notice" or "Attention." Do not use the words Warning, Caution and Danger as they are reserved for relation with physiological hazards.

In view of these comments, I am holding up action on elimination of the waste disposal paragraph from ex-U.S. labels.

G. R. Sido

4.26.72

/mw

*Notice! contain polychlorinated biphenyl.
See statement below.*

TRAN 088383

IN 10 REV 11 65



Sido | 851

ELECTRICAL GRADE

AROCLOR

1260

CHLORINATED POLYPHENYLS BY

Monsanto

CAUTION!
CONTAINS CHLORINATED
HYDROCARBONS

Avoid prolonged breathing of vapors
or mists.

Avoid contact with eyes or prolonged
contact with skin.

If skin contact occurs, remove by
washing with soap and water.
Following eye contact flush with water.

If clothing becomes soaked with fluid,
launder before wearing again.

This product contains polychlorinated biphenyls,
which some studies have shown may be persistent,
an environmental contaminant and, possibly, in-
jurious to certain forms of bird, aquatic and animal
life. Extreme care should be taken to prevent any
entry into the environment through spills, leakage,
use, disposal, vaporization or otherwise.

Contact your Monsanto Representative regarding
reclamation of used fluid.

WASTE DISPOSAL

Used polychlorinated biphenyl fluids may be re-
turned freight prepaid for proper incineration at
3¢ per pound.

Ship to: Supervisor Dept. A-246
MONSANTO COMPANY
SAUGET, ILLINOIS 62201

TRAN 088384

LOT NO.	PACKER		NET LEGAL	600 LB.	272.16 KG.	TARE 48 LB.	21.77 KG
						GROSS 648 LB.	293.93 KG

MONSANTO COMPANY, ST. LOUIS, MISSOURI 63166, U.S.A.

811.05-290 15/53

WATER_PCB-SD0000077656

Monsanto

FROM NAME & LOCATION:

S. O. Morrison - G4NK

DATE April 6, 1972 → G. R. Sido - GSEC
SUBJECT PCB Warning Statement E. Greene - A2NA
REFERENCE WAS memo 4-5-72 H. W. Hayden - A2SE
TO W. A. Stewart - A2SE J. Stapleton - C1NA 13>54
R. G. Witterschein - A2SE

We should put a notice about the Warning Statement after the classification for each individual product in the ocean classification book. We will take care of this by securing a specific commodity list from Mr. Hayden.

I would like to suggest we use after the product classification the words "Caution! Contains Polychlorinated Biphenyls. See Warning Below." What I am attempting to do here is to follow the same procedure we follow in connection with Poisons and Flammable Liquids, by showing needed information immediately following the classification of the product on the ocean bill of lading. This is necessary not only to alert the carriers to the statement, but also because this wording is normally transferred to the ship's manifests. Therefore, when the ship personnel in charge of loading the vessel check their manifest for that vessel, they will see this warning and, if necessary, can refer to the bill of lading which is usually located in a steamship office near the pier.

→ You refer to IMCO after ocean classification. This refers to the International Maritime Consultative Organization and involves a world-wide organization, including the United Nations, that deals with the problems of handling hazardous products. As you know, the PCB products are not regulated and the warning statements we are speaking of will be done independently by Monsanto for protective purposes. When agreement is finally reached to proceed as you have outlined, please let me know so that I can alert our destination area people and they can take such action as is deemed necessary within their areas, with regard to shipments on inland carriers in foreign countries.

TRAN 088385

S. O. Morrison

10 10 20 11 00

jb

WATER_PCB-SD0000077657

Monsanto

FROM: 11 LOCATION: W. A. Stewart - St. Louis, Missouri

DATE: April 5, 1972

cc E. Greene
H. W. Hayden
J. Stapleton
R. G. Witterschein

SUBJECT: PCB WARNING STATEMENT

REFERENCE:

TO:  S. R. Sido
S. O. Morrison

A decision has been reached on the warning statement to be used on our invoices, acknowledgments, and ocean bills of lading. A copy of the wording is attached.

This statement deliberately omits any reference to Monsanto's willingness or ability to accept waste product for incinerator disposal.

The decision to withhold this offer to customers around the world is understandable, however, it now presents a problem with labelling drums to be exported.

We would like Mr. Sido's comments on the number of product labels that carry this information, and the best way to overcome the problem. Will this require new labels, can they be reliably obliterated, or what?

Our Forwarders will be instructed on each shipment to include our PCB warning statement on the ocean bills of lading. They will be instructed to show it on every copy of the B/L. We will offer the option of manually typing the statement, or the use of a rubber stamp. Because of their duplicating systems, and the length of the statement, we suspect they will choose the typing approach. Does Mr. Morrison feel a notice of this requirement should be included on each product in the ocean classification book?

We are working on methods of including the statement on our invoices and acknowledgments. Once again the length may prevent preprinted stickers/labels and it may be necessary to resort to inclusion on the reverse side of the invoice. This action would require a statement on the front to "read warning -----".

Because some invoices are already printed on the reverse side, it may be necessary to use legal size paper and possibly reduce it at the time of duplication.

Acknowledgments will probably be handled with a preprinted sticker.

TRAN 088386

11-10 REV 11 68

*Memo dictated
4-6-72*

*Make copies of the
1260 label for all of them + Stewart
+ Page 5000000*

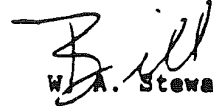
- 2 -

Action required:

G. R. Sido
S. O. Morrison
H. W. Hayden

Labels
Ocean Classification - IMCO
Invoice - Acknowledgment

May we have your comments at your earliest convenience?


W. A. Stewart

WAS/jc
Attachment

TRAN 088387

POLYCHLORINATED BIPHENYLS

NOTICE
WARNING

-- This product contains polychlorinated biphenyls which some studies have shown may be persistent, an environmental contaminant and possibly injurious to certain forms of bird, aquatic and animal life.

Use of this product must be restricted to applications which can be controlled so that entry into the environment does not occur and for applications in which it cannot come into contact with food, animal feedstuffs or pharmaceuticals.

Extreme care should be taken to prevent any spills, leakage, disposal vaporization or otherwise. When such accidents occur, the product must be collected and not allowed to enter the environment.

entry into the environment through

Speak to Bill Poppen; about what should be done if a leak or spill occurred from a drum! Especially in remote areas, ex-US!

Suggested considering adding to domestic - export label which has the 3d/4b POC instruction!

"In case of leak or spill, contact your Monsanto agent."

If we can't spell out all the options on a label, we might be able to instruct our agents so they can provide optimum help, to avoid careless exaggeration of the problem!

TRAN 088388

If the liquid can't be confined, leaked + repackaged; then soaking up with inert material such as sand or earth and put in a liquid tight drum. Extraction with kerosene and decanting might

W. B. Papageorge - General Offices

May 4, 1972

PCB LABELS

P. G. Bealigus - B28C
 E. J. Bergen - B28L
 W. R. Carey - B28L
 F. L. Gossage - B28L
 C. Paton - B28C
 J. E. Savage - B28L
 G. E. Bled - B28C

A. E. Leary - 1740

It is my understanding that at present the only labels in use on PCB products sold domestically are as follows:

Aroclor 1016
 Capacitor 21
 Aroclor 1232
 Aroclor 1254
 Pyramol A13B3B
 Inerteen 100-42
 Inerteen 70-30
 Inerteen 54201CM
 Inerteen 54201KA

Labels for export orders are for the following:

Aroclor 1242
 Capacitor 21
 Aroclor 1232
 Aroclor 1254
 Pyramol A13B3B
 Inerteen 100-42
 Inerteen 70-30

Please let me know if the two lists are correct.

WBP/er

W. B. Papageorge

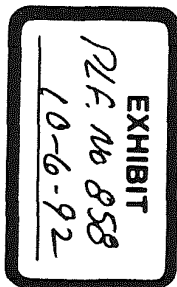
TRAN 088403

EXHIBIT

PLF. 16 852

10-6-92

5.10/852



PRECAUTIONARY LABEL CHRONOLOGY

Chlorinated Biphenyls

Tab Reference	Label Number	Content	1st Printing	Reference	Notes
A	B-61	Aroclor - Avoid Contact	>5/47	5, 6, 7	
B	--	Chlorinated Diphenyl Tech *Caution! *Deleted Aroclor	~12/47	5, 8, 9, 10, 11, 12	Used for selected accounts only
C	--	Caution! *Deleted chlorinated diphenyl Tech * Contains chlorinated hydro- carbons * Expanded precautions	5/59	5, 12, 13, 14, 15, 16, 17, 18	
D	--	Caution! 2nd Edition	7/25/60	5	
E	--	Caution! 3rd Edition	10/18/61	5, 19	
F	1020/53	Environmental Alert	5/11/70	3, 4, 20-28	

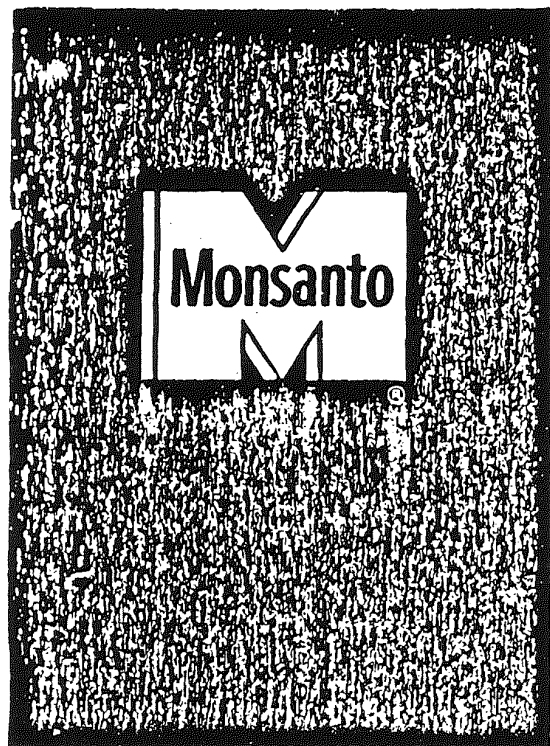
TRAN 060810

5:40/858

Chlorinated Biphenyls

Tab Reference	Label Number	Content	1st Printing	Reference	Notes
G	1149/53	Waste Disposal	9/8/70	29	
H	1150/53	Attention System Limitations - Therminol FR	9/8/71	30, 31	
I	1154/53	Attention System limitations Aroclors - Plasticizer Grade	10/19/71	32, 32a, 32b, 33, 34, 35	

TRAN 060811



MCS. 153

SYNTHETIC FUNCTIONAL FLUID

CAUTION: Contains chlorinated hydrocarbons. Avoid prolonged breathing of vapors or mists. Avoid contact with eyes or prolonged contact with skin. If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water. If clothing becomes soaked with fluid, launder before wearing again.

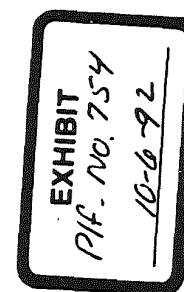
LOT NO. _____ PACKER _____

NET	LEGAL	605	LBS.	274.42	KILOS	TARE	48 LBS.	21.77 KILOS
						GROSS	653 LBS.	296.19 KILOS

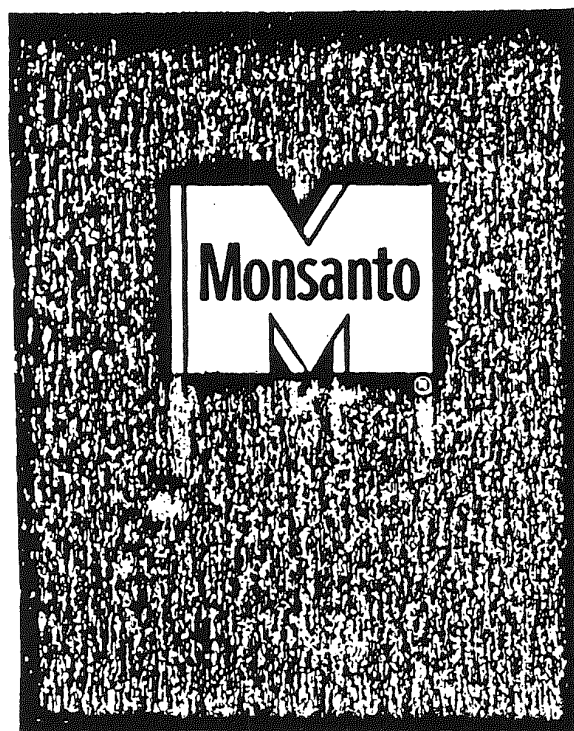
MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A.

804.48-000.01/53

TRAN 001382



51201015



TURBINOL® 153

SYNTHETIC FUNCTIONAL FLUID

FORMERLY MCS 153

CAUTION: Contains chlorinated hydrocarbons. Avoid prolonged breathing of vapors or mists. Avoid contact with eyes or prolonged contact with skin. If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water. If clothing becomes soaked with fluid, launder before wearing again.

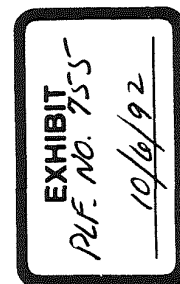
LOT NO. _____ PACKER _____

NET	LEGAL	605	LB.	274.42	KG.	TARE	48 LB.	21.77 KG.
						GROSS	653 LB.	296.19 KG.

MONSANTO COMPANY, ST. LOUIS, MISSOURI 63166, U.S.A.

804.48-000.02/53

TRAN 001383



side 755

80448-000. ⁰² 53

10/19/67

6124-000-11-01 X

now TURBINOL 153 (FORMERLY MCS 153)

~~ATC 5 @ 153~~

605 lbs.

48 tree

Red on White $4\frac{1}{2}'' \times 10\frac{3}{4}''$

1000 ordered for Queeny Pl.

12/2/69 ⁽²⁾ Name changed to TURBINOL
with all else the same. 1000 coils for
Queeny Plant per D.F. Smith.

TRAN 088569

Side 899

804-48-CCC 03/53
- 6124-000-11-001

6/8/71

TURBID 153 - SAMPLE label
Contains ARBORALS. therefore PCB should
be on white 2" x 4" ^{at least.}
1000 ordered for Quincy Pk.

5.20 | 900

TRAN 088570