Reichhold Chemicals, Inc.
Tacoma, Wash.
*

0606396

WATER_PCB-SPO00000153

Monsanto MONSANTO COMPANY
ST. LOUIS, MISSOURI 63166

D-U-N-S/00-626-6803

DEBIT DISTRICT OFFICE

USTOMER'S ORDER NO	DATE ENTERED	DATE SHIPPED	INVOICE DATE	INVOICE NO
	- -	- -	02-28-75	14-02-92386

KEICHHOLD CHEMICALS, INC.
P.O.BOX 1482
TACOMA, WASHINGTON 98401

COPIES TO: 3-2-3
1 J LITTIGH 1740
1 G FAGUE 0250

KEICHOLD CHEM CO
FOX AL

WHSE	BOOKED THRU	S DIV	TERMS	TYPE	MODE
0003	00-00	02	020		02

ACCTS REC NO	CITY-STATE	CUSTOMER I.D.
613020	0250-01	00135569

SE LOCK BOX 01 100

PD OR COL	DELIVERY F.O.B	TERMS OF PAYMENT	SHIPPER NO
PPD	AS INDICATED BELOW	NET 30 DAYS	123218

SHIPPED FROM	CAR NO TT CARRIER	CUSTOMER SERVICE REPRESENTATIVE
SAUGET IL		C R FIELD

EM	DESCRIPTION, PRICE & UNIT	AMOUNT
	INVOICE FOR DISPOSAL COST FOR YOUR SCRAP MATERIAL RETURNED TO SAUGET IL REF YOUR PO NO T-61595 DTD 12-18-74 RETURNED FROM FOX AL ON NORTHWEST DRAYAGE NO C290507	
1	AT - - -0000-02- - - NO WGT FOB FOR 1 DRM THERMINOL FR 660 LBS AT .05 PER LB PLUS 8.00 PER DRM HANDLING CHARGE 02-0003-108.68-000-	41.00
	PAGE 1	41.00

0606397

INTERNAL COPIES DISTRIBUTION AND SPECIAL INVOICE INSTRUCTIONS AS INDICATED ABOVE.

WATER_PCB-SPO00000154

(206) 383-5311 Neary

STATUS

1. Customer REICHHOLD CHEMICAL — Major FR User
2. Address Tacoma, Wash. (FR Location) — MICC Bus. Grp. / Other MC
3. Other Locations Using FR: Yes ☐ No ☐
4. Prior Experience: T-55 ☐ T-66 ☐ Other ☐
5. Other Locations Converted from FR: Yes ☐ No ☐
6. Any Conversion Attempts by Monsanto: Yes ☐ No ☐
7. Any Conversion Inducements: Yes ☐ No ☐
8. If Yes to 6 or 7, give details and status _____
9. Applications for FR (Details) _____
10. FR System(s) | Volume (gal.) | Max. Op. Temp (°F)
11. Any System Peculiarities or Precautions _____
12. Likely Replacement: T-55 ☐ T-66 ☐ Other ☐
13. Sales History

	1968	1969	1970	1971	Date of last order	Volume of last order
Total Volume Orders/Year		FR 1	1800	3000		

14. Key Personnel (address/title/phone)
Charles Allyn

0606398

WATER_PCB-SPO00000155

CONVERSION ACTION

1. Conversion Target Date

2. Monsanto Help Needed _____

_____

_____

_____

_____

3. Progress of Conversion

	Date	Action	Initiated by
[illegible]	2-28-52	Mr. Lasher called about return of 3 drums for credit. Told him to send to L.A.	[illegible]
[illegible]	4-15-52	Called Ashlyn at request of Hanson. They ordered T-66. They plan to drain + caustic wash. I suggested solvent flush and cautioned about drying before start up.	[illegible]

0606399

MATERIAL REPORT AND HAULING ORDER

1

WGK (REV. 3 65)

TO	BBW	TICKET NO. 33216	
FROM	Reichhold Chem	STORAGE LOCATION Tacoma Wash	
PRODUCT	Scrap Thermal		LOT NO.
TOTAL NET WT.			CAR NO.
NO. CONTAINERS .1	TYPE STEEL 38	NET WT. EACH	GROSS 6 75
FINISHED GOODS / RAW MAT'L	CONTAINERS	RETURNED GOODS	TARE
			NET

SPECIAL INSTRUCTIONS:

No seals

For Incineration

4' X 4' PALLETS

WHSE. DEPT.	Hahn
DATE	9/27/72

0606400

MATERIAL REPORT AND HAULING ORDER

309 1

WGK (REV. 3/65)

TO	BBW	TICKET NO.	42201
FROM	Reichhold Chem	STORAGE LOCATION	Tacoma Wash
PRODUCT	Scrap Fr-1		LOT NO.
TOTAL NET WT.			CAR NO.
NO. CONTAINERS	18	TYPE 5 Gal. Bt	NET WT. EACH
FINISHED GOODS	RAW MAT'L	CONTAINERS	RETURNED GOODS
			GROSS 11660
			TARE
			NET

SPECIAL INSTRUCTIONS:

No Seals

For Incineration

Tacoma, Wash.

J. Wmster
7/3/72

4' X 4' PALLETS

WHSE. DEPT.	Hal
DATE	6/21/72

0606401

REC'D AUG 07 1972

WATER_PCB-SPO00000158

Monsanto

MONSANTO COMPANY
ST. LOUIS, MISSOURI 63166

DIVISION SALES

INVOICE

USTOMER'S ORDER NO.	DATE ENTERED	DATE SHIPPED	INVOICE DATE	INVOICE NO.
IM 50850	04-17-72	04-19-72	04-19-72	14-04-42432

REICHHOLD CHEMICALS, INC.
525 NORTH BROADWAY
ATTN BUD ESTBERG
WHITE PLAINS NEW JERSEY 10603

COPIES TO: 3-2-1

REICHHOLD CHEMICALS, INC.
3320 LINCOLN AVENUE
TACOMA, WASHINGTON

WHSE	BOOKED THRU	S. DIV.	TERMS	TYPE	MODE
1133	18-36	02	020		02

ACCTS. REC. NO.	CITY-STATE	CUSTOMER I.D.
613020	0170-46	10067170

SE LOCK BOX 01 100

'PD OR COL.	DELIVERY F.O.B.	TERMS OF PAYMENT	SHIPPER NO.
PPD	AS INDICATED BELOW	NET 30 DAYS	4911996

HIPPED FROM	CAR NO./TT CARRIER	CUSTOMER SERVICE REPRESENTATIVE
LOS ANGELES CA		S. BEESLEY

EM	DESCRIPTION, PRICE & UNIT		AMOUNT
1	25 55 GL METAL DRUM	1,375.00 GL	
	THERMINOL 66 AT 3.2000		4,400.00
	8419-066-10-0009-47-01-S-00398A		
	FOB ANNISTON AL	11,500.00 LB	
	PLUS FREIGHT FROM ANNISTON , AL		1,074.42
	AT 12700 RATE 8.4600 C 12700		
	PLUS STATE SALES TAX 0009-437.46-000	4.50 PC	198.00
	PLUS COUNTY SALES TAX 0009-437.46-021	.50 PC	22.00
	PLUS CITY SALES TAX 0009-437.46-231	.50 PC	22.00

Com

0606402

PAGE 1 — 5,716.42

REC'D APR 27 1972

INTERNAL COPIES DISTRIBUTION AND SPECIAL INVOICE INSTRUCTIONS AS INDICATED ABOVE.

WATER_PCB-SPO00000159

TO: COP

cc: B2NH - C. B. Sigler
P. W. Gann/File
1740 - D. ELDEN #330

THERMINOL FLUID RETURN NOTIFICATION

Customer [illegible]
Address [illegible]
[illegible]

Origin Address
[illegible]

Destination Address
[illegible]

Date [illegible]
Customer Phone No. [illegible]
Taken From: [illegible]
Return Ship Date: [illegible]

COLLECT [X] PREPAID [ ]

RETURN FOR DISPOSAL [X]
RETURN FOR CREDIT [ ]

No. of Containers	Container Size	Container Type	Return Fluid Type
25	55 gal	[illegible]	FR1

SPECIAL INSTRUCTIONS: Warehouses receiving customer material are to send copy of receiving report directly to:
P. W. Gann
Monsanto Company
P. O. Box 14617
St. Louis, Missouri 63178

Reason for Return:

REFUND CREDIT INFORMATION

Original Purchase Date: Monsanto P. O. No.:
Customer P. O. No.: Monsanto Shipper No.:

Monsanto Heat Transfer Specialist [illegible]

0606403

WATER_PCB-SPO00000160

Monsanto

FROM (NAME & LOCATION) D.R. HANSEN, SANTA CLARA

DATE April 17, 1972

SUBJECT REICHHOLD CHEMICAL
Tacoma, Washington

REFERENCE

cc: D.E. Roush
J.J. Roder
Paul Gann ✓
D.E. Stegen

TO : JOHN KRISS

John,

One of the gentlemen you called on at Reichhold called today (April 14) requesting pricing information on Therminol 55 and 66. Apparently they have run into some problem with the Mobiltherm 600 in their small heating unit. It appears this product is carbonizing and sludging out, causing some real problems with their seals and packing. He feels this might be caused by exposure to oxygen since they don't have an inert blanket on their expansion tank yet. He also was concerned, however, that from the data you showed him the FLET life shows Therminol 55 to be much more stable than the Mobiltherm 600. Consequently he was wondering if our product might be more effective.

I gave him all the information and a pretty hard sell on Therminol 55 over Mobiltherm. As it was left, I believe they will seriously consider changing their systems over to Therminol.

He asked one other question about whether Therminol leaks would cause fires in their insulation. He had heard from the Reichhold operation in Texas that Mobiltherm 600 will cause fires in the insulation if leaks develop. He wondered if the same phenomena occurred with Therminol 55. I told him that I was afraid that Therminol 55 acted about the same as Mobiltherm 600 in this situation. We do have some technical information on fires of this nature. On your next call there, you might want to review the information we have on this and present it to him.

Good luck on converting their system over to Therminol 55. I think you've got a good chance to do it now.

D.R. Hansen

/sb

0606404

IN-10 REV 11-65

WATER_PCB-SPO00000161

Paul Gann
St. Louis

0606405

bcc: D. R. Hansen
CP/DER/JJR
PMB/File

April 18, 1972

Mr. Charles L. Allyn
Reichhold Chemicals Inc.
P. O. Box 1462
Tacoma, Washington 98401

Dear Mr. Allyn:

As we discussed, I am enclosing 25 pre-addressed labels for return of your used Therminol® FR for disposal. Please indicate clearly the drum contents on each label.

You can ship collect as Monsanto will pay freight costs and will properly dispose of the material, free of charge, by high temperature incineration.

I am enclosing a copy of a Wall Street Journal article of March 20, 1972, which gives a good summary of the reasons for the Therminol FR (PCB) recall.

Thank you for your cooperation. Please feel free to contact me if you have any additional questions.

Sincerely,

R. L. Neary
Heat Transfer Specialist

/jp
Enclosures:
Return Shipping Labels (25)
FDA Limits on PCB's (Wall Street Journal 3/20/72)

0606406

WATER_PCB-SPO00000163

RCI
3320 Lincoln
Tacoma, Wash

Attn: Mr. Chuck Allyn

206 - FU3 - 5311

18 - 20 drums for return

25 drums T-66 — TW 50850

Sent 25 labels
in 3 weeks

Small system
~~to~~ [illegible] - [illegible]
∴ T 66

System in Texas

0606407

MONSANTO COMPANY DATE 3/3/72 RECEIVING #

6670 EAST FLOTILLA STREET / LOS ANGELES , CALIFORNIA 150

RECEIVED FROM : Reichhold Chem. Inc ← CARRIER Time-DC

ADDRESS: Tacoma, Wash CAR / TRAILER #

C.	S/N	QUAN.	unit wgt	Bag or drum	Damage	DESCRIPTION	Storage Points	Handling Points	NET 100 Wgt.	Total Storage Points	P
13		3	600#	drum	—	Thermonol FR-1					
						Lot (2)-KM-3124					
						(1)-KM-3130					
						Returned back for					
						credit (Hold for					
						Disposal)					
						3 DRUMS W/ MONSANTO PROD. LABELS					
						& CAP SEAL INTACT					
						NO. RED RETURNED GOOD LABEL					

DIVISION NET GROSS

RECEIVED : [signature] (3)

ORGANIC

REC'D MAR 1972

0606408

WATER_PCB-SPO00000165

FREIGHT BILL NUMBER

SEA 77470423

TIME-DC

DATE	TO	CP	TH	BI	ADV	TIME DC	BYD	TRLR NO.	EXC CODE	COMM	COD
022972	LOS	1	1			10940		6700	X		

CONSIGNEE MONSATNO 6080 E FLOT.LLA ST

DESTINATION RLOS ANGELES CLAIF

SHIPPER REICHHOLD CHEMICAL INC TACOMA

ORIGIN TACOMA WASH

SHIPPER OR GLB # | C/L F/B NO. | C/L NAME | C/L DATE | C/L CODE

NO. PIECES	DESCRIPTION OF ARTICLES AND SPECIAL MARKS	KEY WORD CODE	WEIGHT	RATE	CHARGES
3 LOBS	DRM THERMONOL FR 1 12 15 542 600 NET EA AS CHEM NOI KM-3130 ① RVNX 50 LB 10T-KM-3124 ② 3/600# drms Thermonol FR-1 In. 3/3/72 Felix Gill	COLL	1950	561	10940

I.C.C. REGULATIONS REQUIRE PAYMENT OF FREIGHT CHARGES WITHIN SEVEN DAYS.

PRINTED IN U.S.A.

THANK YOU FOR USING TIME-DC

CUSTOMER

REC'D MAR 9 1972

0606409

WATER_PCB-SPO00000166

Monsanto MONSANTO COMPANY
ST. LOUIS, MISSOURI 63166

D U N S 00-626-6803
DISTRICT OFFICE

CREDIT

USTOMER S ORDER NO	DATE ENTERED	DATE SHIPPED	INVOICE DATE	INVOICE NO
	- -	- -	07-18-72	14-07-96946

REICHHOLD CHEMICALS, INC.
525 NORTH BROADWAY
ATTN BUD ESTBERG
WHITE PLAINS NEW JERSEY 10603

COPIES TO: 3-2-4
1 D ELDEN 1740
1 AJ KOENIG B3SC
1 PW GANN B2SD

REICHHOLD CHEMICALS, INC.
3320 LINCOLN AVENUE
TACOMA, WASHINGTON

WHSE	BOOKED THRU	S DIV	TERMS	TYPE	MODE
1133		02			0

ACCTS REC NO	CITY-STATE	CUSTOMER I D
613020	0170-46	10067170
00	LOCK BOX 01	100

PD OR COL	DELIVERY F O B	TERMS OF PAYMENT	SHIPPER NO
	AS INDICATED BELOW		711785

PPED FROM	CAR NO TT CARRIER	CUSTOMER SERVICE REPRESENTATIVE
LOS ANGELES CA		JORDAN

M	DESCRIPTION PRICE & UNIT	AMOUNT
	CREDIT FOR 3 DRUMS OF THERMINOL FR-1 RETURNED TO LOS ANGELES CALIF	
1	AT - - -0000-02- - - NO WGT FOB	
	FOR 3 DRUMS EA 600 LBS NET 1800 LBS AT .33 PER LB 02-0003-814.87-667-	594.00
	PAGE 1	594.00

0606410

REC'D JUL 27 1972

INTERNAL COPIES DISTRIBUTION AND SPECIAL INVOICE INSTRUCTIONS AS INDICATED ABOVE.

WATER_PCB-SPO00000167

#155

TO: COP

cc: B²NH - C. B. Sigler
P. W. Gann/File
1470 - D. Elden

THERMINOL FLUID RETURN NOTIFICATION

Customer [illegible]

Address [illegible]

[illegible]

Origin Address [illegible]

Destination Address [illegible]

Date [illegible]

Customer Phone No. [illegible]

Taken From: [illegible]

Return Ship Date: [illegible]

COLLECT ☒ PREPAID ☐

RETURN FOR DISPOSAL ☐

RETURN FOR CREDIT ☒

No. of Containers	Container Size	Container Type	Return Fluid Type
3	55 gal.	drum	FR1

SPECIAL INSTRUCTIONS: Warehouses receiving customer material are to send copy of receiving report directly to:
P. W. Gann
Monsanto Company
P. O. Box 14617
St. Louis, Missouri 63178

Reason for Return: Converting from FR fluid

REFUND CREDIT INFORMATION

Original Purchase Date: [illegible] Monsanto P. O. No.: ____

Customer P. O. No.: [illegible] Monsanto Shipper No.: ____

Monsanto Heat Transfer Specialist [illegible]

0606411

WATER_PCB-SPO00000168

b.c.c. J. A. Kriss
D. R. Hansen
[redacted]
JJR/DER
File

February 17, 1972

Mr. Charles L. Allyn
Reichold Chemicals, Inc.
P. O. Box 1582
Tacoma, Washington 98401

Dear Mr. Allyn:

Thank you for your letter of January 17th. We have considered the procedure you propose and agree that it is unwise to dump wash water containing Therminol® FR. You may wish to consider the following step in order to minimize the FR that would be present when you wash the system with caustic soda:

1. Drain as you have described.

2. Flush the system with Mobiltherm or non-chlorinated solvent and drain as in Step #1.

3. Sample the flushed fluid and carry out a chlorine analysis to determine FR content.

4. You could consider subsequent flushing if the FR content is over 1% or so.

5. Caustic wash as you have described paying particular attention to the dryness of the system before refilling with Mobiltherm.

6. We would suggest you collect the wash water in a tank and allow it to settle. Therminol FR being heavier than water and immiscible should settle to the bottom where it could be drained off into a drum.

7. With regard to disposal of the wash water we suggest you drum this off and bury in a sanitary [redacted]-fill. Do not dump into a sewer system. [redacted] is unable to

0606412

WATER_PCB-SPO00000169

handle Therminol FR traces in wash water because disposal by incineration is impossible due to the temperature-quenching effect of the water.

With regard to the disposal of drained Therminol FR and flushing fluid, our policy is as follows:

a) We will pay the freight and incineration cost on Therminol FR drained from the system.

b) If the flushing fluid is not a Monsanto product we will charge you the freight and incineration cost of $0.03/Lb. on the weight of Therminol FR determined by analysis to be present. For example if you returned 8000 Lb. flush fluid containing 800 Lb. FR you would only be charged freight and incineration on 7200 Lb. We are enclosing a copy of our Therminol® Conversion Bulletin which you may find helpful.

The procedure for returning fluid to Monsanto for disposal is as follows:

Return of Used Fluids
When draining your system, we encourage you use drums that meet DOT 17E Specification (55 gallon drums, 18 guage minimum, 2 bung head; 5 gallon drums, 24 guage minimum) to prevent leakage. The outside of the return drums of Therminol FR and flush fluid should be free of fluid material.

We ask that you contact one of our Heat Transfer Specialists, (314) 694-8514, when you are ready to return used FR or flush fluid to insure proper disposal of the fluid.

New Therminol FR Return for Credit
Any unopened drums of Therminol FR series products, returned prior to March 1, 1972, will be accepted for credit:
1. If the original drum seals are intact.
2. If Monsanto's product label containing the "caution" statement "avoid prolonged breathing of vapors or mists, etc." is clearly legible.
3. If each drum is clearly labeled "returned for credit".
4. Ship freight collect to:

Please contact a Monsanto Heat Transfer Specialist, (314) 694-8514, giving him fluid type and number of drums returned for credit prior to shipment.

Sincerely,

E. Peters

0606413

WATER_PCB-SPO00000170

REICHHOLD CHEMICALS, INC.

Creative Chemistry . . . Your Partner in Progress

Executive Offices • RCI BUILDING, WHITE PLAINS, N. Y. 10602

ADDRESS REPLY TO
REICHHOLD CHEMICALS, INC.
P. O. BOX 1482
TACOMA, WASHINGTON 98401

PHONE AREA CODE 206 FU 3-5311
TELETYPE 910-449-2355
CABLE ADDRESS BECKACIT

January 17, 1972

Monsanto Company
P. O. Box 14617
St. Louis, Missouri 63178

Attention Dr. Cumming Paton

Gentlemen:

We are preparing to change our Therminol FR and replace it with Mobiltherm at our Tacoma plant. We are going to Mobiltherm because we are using it in another system and do not want to have two different heat transfer liquids to inventory.

We understand that Monsanto will pay freight costs and give instructions about draining, cleaning, drumming and shipping. Possibly, you could tell us if you feel our procedure sounds okay. We were going to do as follows:

1. Drain all the Therminol FR that we can out into drums. Possibly, some new drains may have to be cut in the system to do this.

2. Wash the system out by circulating a solution made up of five (5) pounds caustic soda and five (5) pounds of soda ash per 120 gallons of water. Our volume is about 1300 gallons.

3. While circulating, heat to 180°F.

4. Circulate 24 hours. Periodically drain fluid from a low point and replace with clean water. Do this until fluid in system is clear.

5. When fluid in system is clear, raise temperature to 212°F (boiling), stop pump and heater.

6. Quickly drain system, open all vents, and allow residual heat to dry system.

0606414

WATER_PCB-SPO00000171

7. Assure system is dry by air blowing.

8. Fill with Mobiltherm.

I am somewhat concerned about the Therminol FR that will be contained in the wash water. I would assume that this could not be dumped. What is generally done with it?

Very truly yours,

REICHHOLD CHEMICALS, INC.

Charles L. Allyn

Charles L. Allyn

CLA/elg

0606415

WATER_PCB-SPO00000172

Monsanto MONSANTO COMPANY
ST. LOUIS, MISSOURI 63166

D-U-N-S/00-626-6803
DISTRICT OFFICE

DEBIT

CUSTOMER'S ORDER NO.	DATE ENTERED	DATE SHIPPED	INVOICE DATE	INVOICE NO.
	- -	- -	01-29-73	14-01-92827

REICHOLD CHEMICAL INC
P O BOX 1482
TACOMA WASHINGTON
ATTN CHARLES L ALLYN

COPIES TO: 2-2-3
1-J LITTICH 1740
1-P BANN 8250

REICHHOLD CHEMICALS, INC.
3320 LINCOLN AVENUE
TACOMA, WASHINGTON

WHSE	BOOKED THRU	S DIV	TERMS	TYPE	MODE
0003	00-00	02	020		02

ACCTS REC NO	CITY-STATE	CUSTOMER I D
613020	0170-46	10067170
00	LOCK BOX 01	100

PPD OR COL	DELIVERY F O B	TERMS OF PAYMENT	SHIPPER NO
PPD	AS INDICATED BELOW	NET 30 DAYS	120344

SHIPPED FROM	CAR NO TT CARRIER	CUSTOMER SERVICE REPRESENTATIVE
SAUGET IL		JORDAN

M	DESCRIPTION, PRICE & UNIT	AMOUNT
	INV FOR COST OF DISPOSAL OF YOUR SCRAP MATERIAL RECEIVED AT SAUGET IL REFER TO LETTER OF 05-25-72 FROM PATON	
1	AT	
	- - -0000-02- - - NO WGT	
	FOB	
	FOR 1 DRUM FRI SCRAP 625 LBS AT .03 PER LB PLUS FRT AT 56.30 47-0003-503.16-000-	75.05
	Round Fogue - file	
	PAGE 1	75.05

0606416

INTERNAL COPIES DISTRIBUTION AND SPECIAL INVOICE INSTRUCTIONS AS INDICATED ABOVE.

WATER_PCB-SPO00000173