

Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

September 24, 1998

Mr. Andre Carnegie
Van Waters & Rogers Inc.
6049 Old 41A Hwy.
Tampa, Florida 33619-9796

Re: FLD 020 985 727 and GAD 980 845 077

Dear Mr. Carnegie:

Thank you for your assistance during the RCRA compliance inspection conducted on July 17, 1998.

Enclosed is the inspection report generated from this visit. Based upon the information gathered from this inspection, Van Waters & Rogers Inc. was found to be in violation of RCRA regulations governing transfer facilities. These violations are set forth in the "Summary of Alleged Violations" section of the inspection report.

Subsequent review of documentation provide by you indicates that all the hazardous waste violations cited in the "Summary of Alleged Violations" have been corrected. Having returned to compliance, no RCRA enforcement action will be taken. A copy of this report is being forwarded to the Department's Industrial Waste Section for evaluation of the potential industrial waste violation.

Your continued cooperation is appreciated. If you have any question please call me at (813) 744-6100, extension 399.

Sincerely,

Gilbert T. Dembeck
Environmental Specialist III
Division of Waste Management

GTD/gtd

Enclosure

cc: Morgan Leibrandt, HWR Section
Henry Dominick, Industrial Waste Section

"Protect, Conserve and Manage Florida's Environment and Natural Resources"



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HAZARDOUS WASTE INSPECTION REPORT

1. **INSPECTION TYPE:** ☒ Routine ☐ Complaint ☐ Follow-Up ☐ Permitting ☐ Pre-Arranged

FACILITY NAME Van Waters & Rogers Inc.

EPA ID #'s FLD 020 985 727 and GAD 980 845 077

STREET ADDRESS 6049 Old 41A Hwy., Tampa, Florida 33619-9796

COUNTY Hillsborough PHONE 813/677-8414 DATE 07/17/98 TIME 9:15 A.M.

NOTIFIED AS: ☐ N/A

CURRENT STATUS:

- ☐ Non Handler
☐ CESQG (<100 kg/mo.)
☒ SQG (100-1000 kg/mo.)
☐ Generator (>1000 kg/mo.)
☒ Transporter
☒ Transfer Facility
☐ Interim Status TSD Facility
☐ TSD Facility
Unit Type(s):
☐ Exempt Treatment Facility
☐ Used Oil:

- ☐ Non Handler
☒ CESQG (<100 kg/mo.)
☐ SQG (100-1000 kg/mo.)
☐ Generator (>1000 kg/mo.)
☒ Transporter
☒ Transfer Facility
☐ Interim Status TSD Facility
☐ TSD Facility
Unit Type(s):
☐ Exempt Treatment Facility
☐ Used Oil:

2. **APPLICABLE REGULATIONS:**

- | | | | |
|--|--------------------------------------|--|--------------------------------------|
| <input checked="" type="checkbox"/> 40 CFR 261.5 | <input type="checkbox"/> 40 CFR 262 | <input checked="" type="checkbox"/> 40 CFR 263 | <input type="checkbox"/> 40 CFR 264 |
| <input type="checkbox"/> 40 CFR 265 | <input type="checkbox"/> 40 CFR 266 | <input type="checkbox"/> 40 CFR 268 | <input type="checkbox"/> 40 CFR 273 |
| <input type="checkbox"/> 40 CFR 279 | <input type="checkbox"/> 62-710, FAC | <input type="checkbox"/> 62-737, FAC | <input type="checkbox"/> 62-740, FAC |

3. **RESPONSIBLE OFFICIAL(s):**

Andre Carnegie, Operations Manager

4. **INSPECTION PARTICIPANTS:**

Andre Carnegie

Gilbert T. Dembeck, FDEP

5. **LATITUDE/LONGITUDE** 27°58'03" 82°38'01"

6. **SIC Code:** 5169, 4212, 4213, 4214

7. **TYPE OF OWNERSHIP:** Private Federal State County Municipal

8. **PERMIT #:** N/A **ISSUE DATE:** **EXP. DATE:**

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

9. PROCESS DESCRIPTION:

Van Waters & Rogers Inc. (VW&R) runs a warehouse and distribution operation for commercial chemicals and is a break bulk facility for chlorine, solvents, and corrosive chemicals. It also operates as a hazardous waste transfer facility for hazardous waste transported under EPA ID# GAD 980 845 077.

On the west side of the facility is a rail siding where bulk shipments of chemicals are brought in for unloading into dedicated storage tanks. Although the area appeared to be well maintained, water was discharging from the west side of the chlorine building onto the railbed's stone ballast. Mr. Carnegie said that the discharge was non-contact cooling water. Since this is not a permitted discharge, this information will be referred to the Department's Industrial Waste section for compliance evaluation.

On the south side of the facility is the chlorine building. In this building chlorine cylinders are refilled. Cylinder valves are inspected and repaired as necessary prior to cylinders being refilled. Valve repair work is done in a room at the northeast corner of the building. A bead blaster is used to clean the valve bodies. The grit from the bead blaster was being accumulated in a drum. In the same area as the accumulation drum was a full 55 gallon drum of grit from the blaster. According to Mr. Carnegie, the contents were being profiled for disposal. On the south side of the chlorine building is a boiler. A area near the blowdown from this boiler was devoid of vegetation. According to Mr. Carnegie, when operated the boiler is blow down twice a day. This unpermitted discharge will also be referred to the Department's Industrial Waste section for compliance evaluation. Stored on top of a group of chlorine gas cylinder were over 20 spent fluorescent lamps. Mr. Carnegie said that they were setting up a recycling program. Meanwhile it is recommended that these lamps be stored in boxes to protect them from breakage, and properly labeled with the words "Spent Mercury-Containing Lamps for Recycling", "Universal Waste Mercury Lamps", "Waste Mercury Lamps" or "Used Mercury Lamps" to be in compliance with 62-737.400(5)(b)1., F.A.C.

On the north side of the facility are offices and the chemical warehouse. In the southwest end of the building is a drumming operation. Dedicated lines carry the products to the drumming area, and dedicated hoses are used to connect these lines to the drum filling machine. All lines are capped and hoses are drained and are sealed with caps between usage. Material drained from hoses is placed into the product drums.

Between the chlorine building and the warehouse building is a inground concrete neutralizer tank, drum washing operation, and dedicated bulk storage tanks for various corrosive chemicals and solvents. The product storage tanks and the unloading area are surrounded by secondary containment. Any drum wash water, spillage, leakage, or contaminated rainwater from the secondary containment system is pumped into the neutralizer tank for pH adjustment prior to trucking the wastewater to Tampa's POTW for disposal. According to Mr. Carnegie, neutralization is necessary because the wastewater in this tank reaches a pH as high as of 13 prior to treatment.

The contingency plan was in the process of being updated by Mr. Carnegie because the list of emergency coordinators had changed. The only discrepancy noted was that the arrangements with the local authorities were not described in the contingency plan in violation of 40 CFR 265.52(c).

As a hazardous waste transfer facility, a record of when all waste enters and leaves the facility is required to be maintained. One deficiency was noted on a 3/27/98 shipment of hazardous waste from Hydro Aluminum Bohn, on manifest 09801 which is signed as having been picked up by VW&R, but no record was on hand to prove that the shipment was actually picked up the Transport 2, as was listed on the

manifest. Failure to maintain the required transfer facility record is a violation of **62-730.171(2)(e), F.A.C.**

A review of manifests for hazardous waste transported by VW&R also indicated that a driver did not adequately scrutinize a manifest before accepting the waste for transport. On 4/3/98 a shipment of hazardous waste on manifest 98003 from Gold Coast Marble Inc. did not list VW&R as transporter, yet their driver, Donald Dye, signed as accepting the shipment. The Transporter 1 listed on the manifest was Freehold Cartage, who was in fact Transporter 2. The above is a violation of Federal Department of Transportation regulation, 49 CFR 172.205(a), because the transporter is responsible that a properly prepared manifest accompany each shipment of hazardous waste, even though it is the generators' responsibility for the proper preparation of that manifest.

10. SUMMARY OF ALLEGED VIOLATIONS:

- | | |
|----------------------------|--|
| 40 CFR 265.52(c) | Failure to describe in the facility contingency plan arrangements agreed to by local police departments, fire departments, or hospitals. |
| 62-730.171(2)(e), F.A.C. | Failure to maintain a written record of when all hazardous waste enters and leaves the transfer facility. |
| 62-737.400(5)(b)1., F.A.C. | Failure to label universal waste lamps or the containers in which they are stored with the words "Spent Mercury-Containing Lamps for Recycling", "Universal Waste Mercury Lamps", "Waste Mercury Lamps" or "Used Mercury Lamps." |
| * 403.161(1)(b), F.S. | Unpermitted industrial wastewater discharges. |

* Potential violations referred to DEP Industrial Waste Section for compliance evaluation.

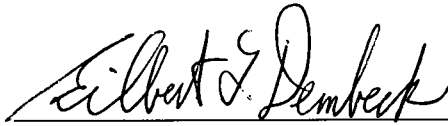
11. RECOMMENDATIONS:

- | | |
|----------------------------|---|
| 40 CFR 265.52(c) | Describe in the facility contingency plan arrangements agreed to by local police departments, fire departments, or hospitals. Redistribute copies of the plan to the local authorities when the revisions to the emergency coordinator list has been completed. |
| 62-730.171(2)(e), F.A.C. | Establish and maintain a written record of when all hazardous waste enters and leaves the transfer facility. |
| 62-737.400(5)(b)1., F.A.C. | Label the universal waste lamps or the containers in which they are stored with the words "Spent Mercury-Containing Lamps for Recycling", "Universal Waste Mercury Lamps", "Waste Mercury Lamps" or "Used Mercury Lamps." |

403.161(1)(b), F.S.

Cease all industrial wastewater discharge to the ground until permitting status is determined. Recommend redirecting these flows into the neutralizer tank system.

Report prepared by:



Date

7/29/98

Gilbert T. Dembeck
Environmental Specialist III

Approved by:



Date

7/30/98

Elizabeth Knauss
Environmental Manager

**HAZARDOUS WASTE INSPECTION
EXIT INTERVIEW**

FACILITY: Van Waters & Rogers, Inc

I.D. NUMBER: FLD 020985727 DATE: 7/12/98 TIME: 11:35 AM

INTERVIEW PARTICIPANTS: Andre Carnegie

This exit interview is the Department's procedure to advise you early in the process of possible violations of Florida Administrative Code Chapter 62-710, 62-730, 62-737 and which adopts Federal Regulations 40 CFR Parts 260-266, 268, 270, 273, and 279 by reference. It is possible that the violations noted and checked are incomplete. After a complete internal file review by the Department, an inspection report will be finalized. In most cases the violations noted below by the inspector will not change in the final report, therefore, you are advised to immediately begin correcting these violations. The Department will forward the complete inspection checklist along with the finalized inspection report within 45 days. Be advised that the Department has signed an enforcement agreement with the U.S. Environmental Protection Agency which calls for the assessment and collection of monetary penalties for violations. While your quick response in correcting the violations may not reduce the calculated penalties, continued non-compliance may result in greater penalty liability.

The following violations have been tentatively identified:

- ☐ 1. Hazardous waste determination [262.11].
- ☐ 2. Hazardous waste notification [262.12, 263.11 or 264/265.11].
- ☒ 3. Manifest deficiencies or recordkeeping and reporting [262/263 Subpart B or 264/265 Subpart E].
- ☒ 4. Personnel training [264/265.16 (262.34(d) for SQG)].
- ☒ 5. Contingency plan [264/265 Subpart D (262.34(d) for SQG)].
- ☐ 6. Preparedness and prevention [264/265 Subpart C].
- ☐ 7. Container requirements [262.34 or 264/265 Subpart I].
- ☐ 8. Tank requirements [262.34 or 264/265 Subpart J].
- ☐ 9. Operating a treatment, storage or disposal facility without a permit [403.722 F.S., F.A.C. 62-730, Section IV].
- ☐ 10. Security requirements [264/265.14].
- ☐ 11. Groundwater monitoring [264/265 Subpart F].
- ☐ 12. Closure/Post-closure [264/265 Subpart G].
- ☐ 13. Failure to comply with the provisions of a Department issued permit or with the provisions of the Consent Order [403.727 F.S.].
- ☐ 14. Used oil and used oil filters [279 & F.A.C. 62-710].
- ☒ 15. Mercury containing lamps and devices [F.A.C. 62-737].
- ☐ 16. Universal Waste [273].
- ☐ 17. Other

*Gold Coast Manhole
FLD 982162265
See manifest 98002*

*No arrangements with local authorities described. Update emergency coordination
Proof of distribution
Revise insp. records*

Containerize & label containers

COMMENTS: Manifest 09801, FLD 099348525 Hydro Alum

List of chemicals discharge to sewer
Need copy of profile (analysis) head blast grit.
IW concerns. Boiler blowdown to ground. Cooling water to ground at Chz Bldg

DEP INSPECTOR SIGNATURE: *Gilbert Sanchez*

FACILITY PARTICIPANT SIGNATURE: *Andre Carnegie*

NOTE: BY SIGNING THIS FORM THE FACILITY PARTICIPANT IS ONLY INDICATING THAT THIS FORM HAS BEEN RECEIVED. THIS IS NOT AN ADMISSION THAT THE CITED PROVISIONS HAVE BEEN VIOLATED.

TRANSPORTERS CHECKLIST

1. Site Name:
- Van Waters & Rogers, Inc.

Transporter Requirements (40 CFR 263)

1. Do vehicles transporting hazardous waste have the appropriate placards? (263.10)(49 CFR 172.500) Y ☒ N ☐
2. Does transporter have an EPA identification number? (263.11(a)) Y ☒ N ☐
Transporter GAD 980845077
3. Does the transporter use manifest system as required by 263.20? Y ☒ N ☐

Do the manifests contain at least:

- a. Name, address, and EPA ID of transporter? Y ☐ N ☒
See manifest 98003 Gold Coast Marble
- b. Name, address, and EPA ID code of generator? Y ☒ N ☐
- c. Name, address, identification code of designated permitted facility? Y ☒ N ☐
- d. Corresponding manifest document number? Y ☒ N ☐
- e. Description and quantity of each hazardous waste? Y ☒ N ☐
- f. Signature of subsequent transporters? Y ☐ N ☒
See manifest 09801 Hydro Aluminum Bohn
- g. Signatures signifying proper delivery or reasons why delivery could not be certified? Y ☒ N ☐
- h. EPA waste codes? Y ☒ N ☐
4. International shipments: (263.20(g)) NA ☒
- a. Record of date waste left U.S.? Y ☐ N ☐
- b. Presence of one signed copy in records? Y ☐ N ☐
- c. Signed copy of manifest returned to the generator? Y ☐ N ☐
- d. Copy of the manifest given to a U.S. Customs official at the point of departure from the United States? Y ☐ N ☐
5. For SQG waste:
- a. Is waste transported according to reclamation agreement? Y ☐ N ☒
- b. Is following information recorded on a shipping paper:
- Name, address, and EPA ID of waste generator Y ☐ N ☐

- Quantity of waste accepted Y N
- DOT - required shipping info Y N
- Date waste is accepted Y N
- c. Does transporter carry this shipping paper during transport? Y N
- d. Are records maintained for three years after termination or expiration of reclamation agreement? Y N
6. Are copies of the manifest retained for 3 years? (263.22) Y ✓ N
7. Is there evidence of discharge of hazardous waste? (263.30) Y N ✓
8. Has transporter demonstrated the financial responsibility required under 62-730.170(2) Y ✓ N
9. Does the transporter verify financial responsibility with the Department annually (62-730.170(3))? Y ✓ N

Transfer Facility Requirements (62-730.171)

1. Does transporter comply with 10 day storage limit for transfer facilities? (263.12) Y ✓ N
- a.. Is the hazardous waste packaged according to 262.30? (263.12) Y ✓ N
2. General Facility Standards (265 Subpart B)
- a. Security (265.14)
- (1) Is the facility security system adequate to minimize unauthorized entry? Y ✓ N
- (2) Are signs posted and legible for 25 feet? Y ✓ N
- b. Inspection Requirement (265.15)
- (1) Does the facility have a copy of the Inspection Plan? Y ✓ N
- (2) Does the facility have completed inspection logs? Y ✓ N
- (3) Were the deficiencies corrected in a timely manner? Y ✓ N
- (4) Are the inspection logs maintained at the facility for 3 years? Y ✓ N
- c. Personnel Training (265.16)
- (1) Do management personnel complete hazardous waste training? Y ✓ N
- Is training on the job? Y ✓ N
- Is training in the classroom? Y ✓ N

(2) Do laborers who handle hazardous waste complete training?

Y ☒ N ☐

Is training on the job?

Y ☐ N ☒

Is training in the classroom?

Y ☒ N ☐

(3) Does training include:

Emergency response procedures?

Y ☒ N ☐

Inspection procedures?

Y ☒ N ☐

Operation of hazardous waste handling equipment?

Y ☒ N ☐

(4) How often is training reviewed?

Annually

(5) Does the facility have personnel training records including:

Job title and description of position?

Y ☒ N ☐

Description of employee's training

Y ☒ N ☐(6) Is training successfully completed within 6 months of hiring/
transfer to HW position?Y ☒ N ☐

(7) Are records maintained for three years at the facility?

Y ☒ N ☐

d. Ignitable, Reactive, or Incompatible Waste (265.17)

(1) Is the waste separated and confined from sources of ignition or
reaction, sparks, spontaneous ignition, and radiant heat?Y ☒ N ☐

(2) Are "No Smoking" signs posted in the area?

Y ☒ N ☐3. Preparedness and Prevention (265 Subpart C)a. Is there evidence of fire, explosion or contamination of the
environment? (265.31 Maintenance and Operation of Facility)Y ☐ N ☒

If yes, use narrative explanation.

b. Is the facility equipped with (265.32 - required equipment):

(1) Internal communications or alarm system?

Y ☒ N ☐

Is it easily accessible in case of emergency?

Y ☒ N ☐(2) Telephone or two-way radio to call emergency response
personnel?Y ☒ N ☐(3) Portable fire extinguishers, fire control equipment, spill control
equipment and decontamination equipment?Y ☒ N ☐

Is this equipment tested to assure its proper operation?

Y ☒ N ☐

How frequently?

Annually(4) Water of adequate volume for hoses, sprinklers or water spray
system?Y ☒ N ☐

(a) Describe source of water.

(b) Indicate flow rate and/or pressure and storage capacity, _____
if applicable. _____

c. Is there sufficient aisle space to allow unobstructed movement of personnel and equipment? (e.g., adequate aisle space in between barrels to check for leakage, corrosion and proper labeling, etc.) (265.35 - Required Aisle Space)

Y ☒ N ☐

d. Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility? (Layout of facility, properties of hazardous waste handled and associated hazards, places where facility personnel would normally be working, entrances to roads inside facility, possible evacuation routes.) (265.37 - Arrangements with Local Authorities)

Y ☒ N ☐ NA ☐

If NA, explain _____

e. In the case that more than one police or fire department might respond, is there a designated primary authority? (265.37 - Arrangements with Local Authorities)

Y ☐ N ☐ NA ☒

If yes, indicate primary authority: _____

Is the fire department a city or volunteer fire department? _____

f. Does the owner/operator have phone number of and agreements with state emergency response teams, emergency response contractors and equipment suppliers? (265.37 - Arrangements with Local Authorities)

Y ☐ N ☒

Arrangement not described in Cont. Plan
Are they readily available to the emergency coordinator?

Y ☐ N ☐

g. Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility? (265.37 - Arrangements with Local Authorities)

Y ☒ N ☐

If no, has the owner/operator attempted to do this?

Y ☒ N ☐

h. If the State, or local authorities decline to enter into the above referenced agreements, has this been documented in the operation record? (265.37 - Arrangements with Local Authorities)

Y ☐ N ☒

4. Contingency Plan and Emergency Procedures (265 Subpart D)

a. Does the facility have a contingency plan? (265.51 - Purpose and Implementation of Contingency Plan)

Y ☒ N ☐

b. Is it maintained at the facility? (265.53 - Copies of Contingency Plan)

Y ☒ N ☐

c. Is the contingency plan a revised SPCC Plan (265.52 - Content of Contingency Plan)

Y ☐ N ☒

(1) Does the plan include:

(a) Action personnel will take?

Y ☒ N ☐

- (b) Evacuation routes? Y ☒ N ☐
- (c) Emergency Equipment? Y ☒ N ☐
- (d) Is the emergency equipment properly inspected and maintained? Y ☒ N ☐
- d. Is there an emergency coordinator on site or within short driving distance of the plant at all times? (265.55 - Emergency Coordinator) Y ☒ N ☐
- e. Who is the emergency coordinator? Andre Carnegie
- f. Has the facility supplied local police and fire departments with a copy of the contingency plan? (265.53(b) - Content of Contingency Plan) Y ☒ N ☐
- g. Has the facility supplied DEP with a copy of the Contingency Plan? (62-730.171(2)(a)) Y ☒ N ☐
5. Container Storage Checklist (Subpart I - Use and Management of Containers 265.170)
- a. Are the containers in good condition (265.171)?
(check for leaks, corrosion, bulges, etc.) Y ☒ N ☐
- b. If a container is found to be leaking, does the operator transfer the hazardous waste from the leaking container? Y ☒ N ☐
- c. Is the waste compatible with the containers and/or its liner? (265.172) Y ☒ N ☐
- d. Are containers holding hazardous waste opened, handled or stored in such a manner as to cause the container to rupture or leak? (265.173) Y ☐ N ☒
- If yes, explain using narrative.
- e. Are each of the containers inspected at least weekly (265.174)? Y ☒ N ☐
- If no, explain using narrative concerning the frequency of inspection.
- f. Are containers holding ignitable or reactive wastes located at least 15 meters (50 feet) from the facility property line? (265.176) Y ☒ N ☐
- If yes, explain using narrative.
- g. Are incompatible wastes stored in the same containers? Y ☐ N ☒
- If yes, explain using narrative.
- h. Are containers holding incompatible wastes kept apart by physical barrier or sufficient distance? Y ☐ N ☒ NB
- If no, explain using narrative.

6. Does facility have a written closure plan satisfying requirements of

closure performance, notification, and decontamination standards of 40 CFR 265.111, 265.112(c), 265.114, 265.115? (62-730.171(2)(b))

Y ☒ N ☐

Has the facility supplied DEP with a copy of the plan?

Y ☒ N ☐

7. Is hazardous waste that is stored in containers or vehicles stored on a man made surface which is capable of preventing spills or releases to the ground? (62-730.171(2)(d))

Y ☒ N ☐

8. Is a written log maintained for all waste entering or leaving the transfer facility? (62-730.171(2)(e))

Y ☐ N ☒

Does the log contain:

Generators' names?

Y ☐ N ☒

Manifest numbers?

Y ☐ N ☒

Dates when waste enters and leaves facility?

Y ☐ N ☒

9. Has the facility notified the department on Form 62-730.900(6) (Transfer facility notification form)? (62-730.171(3))

Y ☒ N ☐

10. Does the transfer facility have an EPA/DER ID number?

Y ☒ N ☐

Unregulated Wastes (Household/Conditionally Exempt/Small Quantity Generator Wastes)

NA ☐

1. Does the transporter have documentation that this waste was generated by an unregulated source?

Y ☐ N ☒ *NA*

2. If no, is the transporter assuming responsibility as the generator of this waste?

Y ☐ N ☒

a. If yes, complete the applicable Generator or Small Quantity Generator checklist.

b. If no, the inspector should inform the transporter that he will be held responsible as the generator of the waste and will be reinspected to ensure that the applicable requirements are being satisfied. A follow-up inspection should be scheduled as follows:

(1) 90 days after initial inspection if the quantity of "unregulated" wastes on site exceed 1000 kg.

(2) 180 days after initial inspection if the quantity of "unregulated" wastes on site are less than 1000 kg.

3. Does the transporter mix/consolidate hazardous wastes of different DOT shipping descriptions 263.10(c)(2)?

Y ☐ N ☒

If yes, complete the Generator checklist.

Land Disposal Restrictions

1. Does the transporter manage restricted (land ban) wastes?

Y ☒ N ☐

If yes, check appropriate box(es).

"California List"
F--- List Solvents
First Third
Second Third
Third Third
Soil and Debris

☒
☒
☒
☒
☒
☐

CESQG CHECKLIST

Facility Name: Van Waters & Rogers Inc Date: July 17, 1998
 Facility Representative: Andre Carnegie Facility ID # FLD 020 985 727
 SIC Codes: 5169, 4212, 4213, 4214 Inspector: Gilbert Dembeck

40 CFR 261.5

1. Describe the facility's hazardous and potentially hazardous waste streams 40 CFR 262.11:

Waste	EPA Waste #s	Generation Rate	Disposal facility?	Proper Waste ID?
<i>Beal Blast Dust</i>	<i>#</i>	<i>1 lb / many years</i>	<i>To be determined</i>	<i>#</i>
<i>Caster</i>			<i>Neutralized on Site</i>	
<i>Spent Mercury Lamps</i>			<i>To be recycled</i>	

(describe discrepancies in waste identification in narrative)

Standards for Conditionally Exempt Small Quantity Generators - 40 CFR 261.5

2. Does the facility generate less than 100 kg/mo (220 lb/mo) of all hazardous wastes? Y ☒ N ☐

And less than 1kg/mo of acutely toxic (P-listed, 40 CFR 262.33) hazardous wastes? Y ☒ N ☐

3. Has the facility obtained an EPA ID #? (not required for CESQGs) Y ☒ N ☐

4. Is the facility disposing of all its hazardous wastes to facilities permitted to accept the waste? (40 CFR 261.5) Describe discrepancies in narrative. Y ☐ N ☒ *2*

5. Is the facility disposing of hazardous waste by mixing with used oil? Y ☐ N ☒

5. Can the facility document proper disposal of all hazardous wastes? Y ☐ N ☒ *None disposed*

6. Are any hazardous wastes treated or disposed of on site? Describe in narrative: Y ☐ N ☐

7. Are there any unpermitted discharges of other wastes to the environment? Y ☒ N ☐

Caster neutralized. Disposed of to Tampa POTW by truck
Boiler Blowdown + Cooling water from Chlorine Building.

VAN WATERS & ROGERS, INC.

6049 OLD 41A HIGHWAY
TAMPA, FLORIDA 33619
Ph: 813/677-8414 Fax: 813/671-2920

FAX COVER SHEETTO: GILBERT T. DEMBECKCOMPANY: D.E.PDEPARTMENT: Environmental FAX#: 1-813-744-6084

FROM: ANDRE CARNEGIE - Operations Manager E

PHONE: (813) 677-8414 FAX: (813) 671-2920 VOICE MAIL: (800) 284-6264 EXT: 9438

E-MAIL ADDRESS: ANDRE.CARNEGIE@VWR-INC.COM

DATE: 9/18/98 NUMBER OF PAGES: (INCLUDING THIS ONE): 1[#]COMMENTS: _____

Service Provider Information Form

Date: 9/16/98Service Provider Name: HILLSBOROUGH COUNTY FIRE RESCUEH.Q. → Location: 2709 E. HANNA AVE TAMPA, FL 33610Telephone: 813 272 6600Basic services you can provide in the event of: HAZMAT/FIRE/MEDICAL
(Release, Fire, Exposure)Details of service: FULL FIRE SUPPRESSION; HAZARDOUS MATERIALS
TECHNICIAN LEVEL TEAM; MECHANICAL MEDICAL SERVICES
- CALL "911" FOR ALL THESE SERVICES
- ADMINISTRATIVE: 272 6600By: WADE G. DEHATEHILLSBOROUGH COUNTY
FIRE RESCUEWADE DEHATE
SPECIAL OPERATIONS CHIEFOffice: (813) 272-6600
Fax: (813) 272-6602
2709 E. Hanna Av
Tampa, FL 33610 Voice Mail: (813) 224-8577
Email: dehatew@hillsboroughcounty.org

Van Waters & Rogers

P.O. Box 1677, Norcross, GA 30091-1677

FAX

Date:

9/9/98

Number of pages including cover sheet:

13

To:

Gilbert DEMBECK
DEP

Phone:

813-744-6100

Fax phone:

813-744-6084

CC:

From:

Gary Tonry

Phone:

770-246-7738

Fax phone:

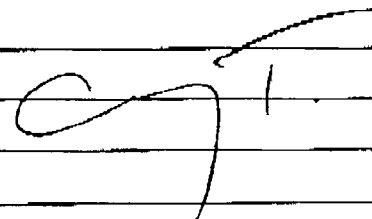
770-409-1757

REMARKS:

☐ Urgent☐ For your review☐ Reply ASAP☐ Please comment

Enclosed Find the necessary documents as requested
to close this file.

Thank you for your help & Patience.





Van Waters & Rogers Inc.

A ROYAL DAKHOED COMPANY

6049 OLD HWY 41A
TAMPA, FL 33619-8798

TEL: (813) 677-8414
FAX: (813) 671-2920

August 10, 1998

Brandon Humana Hospital
119 Oakfield Drive
Brandon, FL 33510

To Whom It May Concern:

Van Waters & Rogers, Inc., operates a chemical distribution facility at the above address. The State of Florida Department of Environmental Protection has asked us to make arrangements, in writing, with the local authorities (Police, Fire & Hospital) to determine the extent of services each will provide in the event of an emergency at our facility (release, fire or exposure).

Your facility is designated in our Emergency Contingency Plan as either having jurisdiction over our facility or specifically listed as a service provider. Would you please take a few moments to complete the attached information or provide your own form and return it to us in the enclosed self-addressed/postage paid envelope at your earliest convenience?

This will assist us in meeting your requirements with the State of Florida.

Sincerely

Andre Carnegie
Branch Operations Manager

AC/nj

Enc.

Joe - Sgt Duncan



Van Waters & Rogers Inc.

A ROYAL DAKHOED COMPANY

8048 OLD HWY 41A
TAMPA, FL 33616-8708

TEL: (813) 877-8414
FAX: (813) 871-2820

August 10, 1998



Hillsborough County Sheriff's Office
P.O. Box 3371
Tampa, FL 33601

To Whom It May Concern:

Van Waters & Rogers, Inc., operates a chemical distribution facility at the above address. The State of Florida Department of Environmental Protection has asked us to make arrangements, in writing, with the local authorities (Police, Fire & Hospital) to determine the extent of services each will provide in the event of an emergency at our facility (release, fire or exposure).

Your facility is designated in our Emergency Contingency Plan as either having jurisdiction over our facility or specifically listed as a service provider. Would you please take a few moments to complete the attached information or provide your own form and return it to us in the enclosed self-addressed/postage paid envelope at your earliest convenience?

This will assist us in meeting your requirements with the State of Florida.

Sincerely

Andre Carnegie

Andre Carnegie
Branch Operations Manager

AC/nj

Enc.



Van Waters & Rogers Inc.

A ROYAL DAKHOED COMPANY

8048 OLD HWY 41A
TAMPA, FL 33618-9798

TEL: (813) 677-8414
FAX: (813) 671-2820

August 10, 1998

Hillsborough County Fire Department
3210 S. 78th Street
Tampa, FL 33619

To Whom It May Concern:

Van Waters & Rogers, Inc., operates a chemical distribution facility at the above address. The State of Florida Department of Environmental Protection has asked us to make arrangements, in writing, with the local authorities (Police, Fire & Hospital) to determine the extent of services each will provide in the event of an emergency at our facility (release, fire or exposure).

Your facility is designated in our Emergency Contingency Plan as either having jurisdiction over our facility or specifically listed as a service provider. Would you please take a few moments to complete the attached information or provide your own form and return it to us in the enclosed self-addressed/postage paid envelope at your earliest convenience?

This will assist us in meeting your requirements with the State of Florida.

Sincerely

Andre Carnegie
Branch Operations Manager

AC/nj

Enc.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 * Complete items 1 and/or 2 for additional services.
 * Complete items 3, 4a, and 4b.
 * Print your name and address on the reverse of this form so that we can return this card to you.
 * Attach this form to the front of the mailpiece, or on the back if space does not permit.
 * Write "Return Receipt Requested" on the mailpiece below the article number.
 * The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
 1. ☐ Addressee's Address
 2. ☐ Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 Columbia Brandon
 Regional Med. Ctr.
 119 Oakfield Dr.
 Brandon, FL 33511

4a. Article Number
 2 224 745 706

4b. Service Type
☒ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
 8-13-98

5. Received By: (Print Name)
 Don Dickson

6. Signature: (Addressee or Agent)
 X: [Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994 Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 * Complete items 1 and/or 2 for additional services.
 * Complete items 3, 4a, and 4b.
 * Print your name and address on the reverse of this form so that we can return this card to you.
 * Attach this form to the front of the mailpiece, or on the back if space does not permit.
 * Write "Return Receipt Requested" on the mailpiece below the article number.
 * The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
 1. ☐ Addressee's Address
 2. ☐ Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 Hills. Cnty Fire Dept
 3210 S. 78th St.
 Tampa, FL 33619

4a. Article Number
 P 061 442 618

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
 9-13-98

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)
 X: [Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994 Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 * Complete items 1 and/or 2 for additional services.
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 * The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
 1. ☐ Addressee's Address
 2. ☐ Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 Hillsborough Cnty
 Sheriff's Office
 P.O. Box 3371
 Tampa, FL 33601

4a. Article Number
 P 061 442 619

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
 8/14/98

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)
 X: [Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994 Domestic Return Receipt

Thank you for using Return Receipt Service.

EMERGENCY RESPONSE PERSONNEL (TELEPHONE NUMBERS)

The phone number listing of those in charge of emergency situations according to the plan are posted within the facility and are kept readily available by the Emergency Coordinator and his/her alternates. Refer to the Emergency Call List distributed by Kirkland Operations Support and kept in Appendix D of this plan.

1. EMERGENCY COORDINATORS (Van Waters & Rogers, Inc.)

Emergency Coordinator

Name:	<u>Andre Carnegie</u>	Beeper #:	813-987-0073
Address:	1703 Hartley	Cellular #:	813-205-3566
	Tampa, FL 33619	Work #:	813-677-8414
		Home #:	813-630-4535

Alternate Emergency Coordinator

Name:	<u>Donnie Redd</u>	Beeper #:	813-980-7947
Address	P.O. Box 448	Work #:	813-677-8414
	Balm, FL 33503	Home #:	813-633-1516

Operations Managers

Name:	<u>Andre Carnegie ICD(See Above)</u>	Work#:	813-677-8414
	<u>Bill Davis PPS</u>	Work #:	813-671-2071
Address:	1112 Hummingbird Lane	Home #:	813-689-1759
	Brandon, FL 33511		

Environmental/Regulatory Manager

Name:	<u>Dennis Thornton</u>	Work #:	864-580-2126
Address:		Home# :	864-574-2945
		Cell #:	864-580-1884

Director of Regulatory Affairs:

Name:	<u>Tom Nisler</u>	Work #:	425-889-3911
	6100 Carillon Pt.	Cell #:	425-601-5725
	Kirkland, WA 98124		

Area Operations Manager

Name:	<u>Gary Tonry</u>	Work #:	1-770-246-7700
Address:		Home #:	1-770-879-6781

EMERGENCY TELEPHONE NUMBERS

A. LOCAL AUTHORITIES

EMERGENCY: CALL 911!!!!

1. POLICE: HILLSBOROUGH COUNTY SHERIFF (813) 224-9911 EMERGENCY
(813) 247-6411 ADMIN.
2. FIRE DEPARTMENT: HILLSBOROUGH COUNTY (813) 681-9927
3. AMBULANCE SERVICE/PARAMEDICS (813) 681-4422
4. HOSPITAL: BRANDON HUMANA HOSPITAL (813) 681-5551

B. CHEMICAL SPILLS (HAZARDOUS MATERIALS, HAZARDOUS WASTES)

1. STATE ENVIRONMENTAL AGENCY: FLORIDA DEPT. OF
ENVIRONMENTAL PROTECTION (850) 488-0300
2. STATE POLICE: FLORIDA HIGHWAY PATROL (813) 272-2211
3. STATE - OTHER: HILLSBOROUGH CNTY.
ENVIRONMENTAL COMMISSION (813) 272-5960
HILLSBOROUGH CNTY. HAZARDOUS
MATERIAL (813) 684-8520
FIRE DEPARTMENT (813) 621-6019
4. NATIONAL RESPONSE CENTER: (800) 424-8802
(FOR HAZARDOUS MATERIAL OR WASTE INCIDENTS)
(202) 426-2675
6. CHEMTREC (800) 424-9300
7. OTHER: FLA. DEPT. OF ENVIRONMENTAL PROTECTION
(SW DISTRICT) (813) 744-6100

STATE EMERGENCY RESPONSE COMMISSION

(850) 413-9970

LOCAL EMERGENCY PLANNING COMMITTEE

(813) 577-5151

C. ADJACENT NEIGHBORS

1. MINERAL AGGREGATES (813) 677-9168
(6048 CR 41A, SOUTH, TAMPA, FL 33619)

D. OUTSIDE CONTRACTOR HELP (Listed below are industrial clean-up companies identified to assist in the clean-up of chemical spills)

1. ACT (AMERICAN COMPLIANCE TECH) (941) 533-2000 Day
4404 S. FLORIDA AVE., STE. #12, LAKE LAND, FL 33813
EPA ID# FLD 982119992 (800) 226-0911 Night

E. OUTSIDE TRANSPORTERS (Listed below are common carriers that can be of assistance in transporting hazardous materials/wastes)

1. SCHNEIDER TRANSPORT (800) 558-6623
3051 S. RIDGE RD., GREEN BAY, WISC. 54306
EPA ID# WID0980904742

2. IN-HOUSE EMERGENCY RESPONSE TEAM(S)

<u>Name</u>		<u>Duties</u>
<u>Andre Carnegie</u>	-	Emergency Coordinator
<u>Donnie Redd</u>	-	Alternate Emergency Coordinator #1
<u>Anne Austin</u>	-	Alternate Emergency Coordinator #2
<u>Pete Cantalupo</u>	-	First Aid Team Leader
<u>John Dupree</u>	-	Fire/Spill Response Team Leader
<u>Karen Smith</u>	-	Assembly Point Leader(s)
<u>Denise Dailey</u>	-	
<u>Mike Badillo</u>	-	Fire/Spill Control Team (members)
<u>Milo Mitchell</u>	-	
<u>Mike Badillo</u>	-	Fire/Spill Control Team Members
<u>Mike Hatton</u>	-	
<u>Andre Carnegie</u>	-	
<u>Denise Dailey</u>	-	First Aid Team (members)

3. EMERGENCY RESPONSE ASSISTANCE (Outside Contractors)

CHEMTREC	Phone # (800) 424-9300
National Response Center	Phone # (800) 424-8802
Name: <u>Laidlaw Environmental</u> (Chemical Spill Assistance)	Phone # 1-(800)699-8916
Name: <u>ACT</u> (Chemical Spill Assistance)	Phone # (941) 533-2000 Day 1-(800) 226-0911 Night
Schneider Tank Lines	Phone # 800-558-5091
State DEP	Phone # 850-488-0300
County Emergency Response Team	Phone # 813-684-8520
Poison Information Assistance	Phone # 800-382-9097

EMERGENCY COORDINATORS (Van Waters & Rogers, Inc.)

Emergency Coordinator:

Andre Carnegie
1703 Hartley
Tampa, FL 33613

Contact Numbers:	Beeper #	(813) 987-0073
	Cell #	(813) 205-3566
	Work #	(813) 677-8414
	Home #	(813) 630-4535

Alternate Emergency Coordinator:

Donnie Redd
P.O. Box 448
Balm, FL 33503

Contact Numbers:	Beeper #:	(813) 980-7947
	Work #:	(813) 677-8414
	Home #:	(813) 633-1516

APPENDIX B – Employee List

February 26, 1998

Branch Personnel List

OFFICE:

<u>Anne Austin</u>	<u>Bill Davis</u>
<u>Nancy Muggleton</u>	<u>Karen Smith</u>
<u>Norma Miguel</u>	<u>Denise Dailey</u>
<u>Nadine Jackson</u>	<u>Christie Davie</u>
<u>Tammy L. Reedy</u>	<u>Andre Carnegie</u>

WAREHOUSE:

<u>Mike Badillo</u>	<u>Mike Hatton</u>
<u>Gus Anderson</u>	<u>Pete Cantalupo</u>
<u>Eric Hamilton</u>	

REPACK:

<u>Milo Mitchell (Bulk Liquids)</u>	<u>Brian Gill (Bulk Liquids)</u>
<u>Thomas Robinson (Chlorine)</u>	<u>John R. Thompson (Chlorine)</u>
<u>Oscar Mullins (Chlorine)</u>	<u>Johnny Dupree (Chlorine)</u>

TRUCK DRIVERS:

<u>Pat Mitchell</u>	<u>Keith Cline</u>
<u>Donnie Redd</u>	<u>Charles Pope</u>
<u>Tom Marshall</u>	<u>Joe Kerr</u>
<u>Jerome McCray</u>	<u>Bob Powell</u>
<u>Larry Wood</u>	
<u>Bob Glass</u>	

SALESPEOPLE:

<u>Eric MacKellar</u>	<u>Susan Jones</u>
<u>Peter Albano</u>	
<u>Jennifer Adams</u>	
<u>Gary Wanck</u>	

WEEKLY INSPECTION LOG

Week Ending: _____, _____

INSPECTION ITEM	S	U	RECOMMENDED ACTION
A. LOCATION - FENCES/GATES/DEBRIS			
Waste materials properly segregated according to compatibility storage program			
Aisles adequate for inspections			
B. CONTAINER CONDITION/LABEL MARKINGS			
All containers closed			
All containers labeled			
All containers have markings			
All containers compatible with material stored within			
All containers have storage - start- date			
Container stacking			
C. ABSORBENT/RECOVERY DRUMS			

NUMBER OF CONTAINERS INSPECTED: _____

Inspector: _____ Date: _____

I have reviewed this report and certify that all stored containers of hazardous waste are in satisfactory condition.

Branch Operations Manager: _____ Date: _____

Recommended Action Codes:

- A. Effect compatibility program
- B. Effect container maintenance receiving procedure
- C. Effect container transfer procedure
- D. Effect spill control procedure

I certify that the above recommended action(s) have been implemented and storage of hazardous wastes is now satisfactory.

Branch Operations Mgr: _____ Date: _____

Inspection codes: S = Satisfactory U = Unsatisfactory

SEP-09-98 01:10 AM \ /ANDRE

8156 1497

P. 99

Service Provider Information Form

Date: 8/13/98

Service Provider Name: Brandon Regional Hospital

Location: 119 Oakfield Dr. Brandon, FL 33511

Telephone : 681-5551

Basic services you can provide in the event of: Release, Fire, Exposure
(Release, Fire, Exposure)

Details of service: Emergency Medical Services

By: Sandra MacFarlane, Director Quality Management

Service Provider Information Form

Date: August 20, 1998

Service Provider Name: Hillborough County Sheriff's Office

Location: 2008 E. 8th Ave Tampa, FL 33605

Telephone: 813-247-8000

Basic services you can provide in the event of: Fire, Exposure or related
Law Enforcement matter. (Release, Fire, Exposure)

Details of service: In the event of fire, exposure or release
that could pose a threat to the surrounding citizens,
the Sheriff's Office would assist the Fire Department
and or HazMat Teams with evacuations, perimeter
security, crowd and traffic controls, or other
assistance requested by them,

By: _____

VAN WATERS & ROGERS, INC.

6049 OLD 41A HIGHWAY
TAMPA, FLORIDA 33619
Ph: 813/677-8414 Fax: 813/671/2920

FAX COVER SHEETTO: GILBERT T. DembeckCOMPANY: Department of Environmental ProtectionDEPARTMENT: ~~ENVIRONMENTAL~~ ENVIRONMENTAL FAX #: 813-744-6084FROM: ANDRE CARNEGIE - Operations Manager

PHONE: (813) 677-8414

FAX: (813) 671-2920

VOICE MAIL: (800) 284-6264 EXT: 9438

E-MAIL ADDRESS: ANDRE.CARNEGIE@VWR-INC.COM

DATE: _____ NUMBER OF PAGES: (INCLUDING THIS ONE): _____

COMMENTS: MR. DEMBECK IS THIS WHAT YOU
ARE WANTING US TO DO IN REGARDS TO
ARRANGEMENTS W/ LOCAL AUTHORITIES

Andre Carnegie

Van Waters & Rogers Inc. operates a chemical distribution facility at the above address. The State of Florida, Department of Environmental Protection has asked us to make arrangements, in writing, with the local authorities (Police, Fire & Hospital) on the extent of services each will provide in the event of an emergency at our facility (release, fire or exposure).

Your facility is designated in our Emergency Contingency Plan as either having jurisdiction over our facility or specifically listed as a service provider. Would you please take a few moments to complete the attached information or provide your own form and return to us in the self addressed/postage paid envelope at your earliest convenience.

This will assist us in meeting our requirements with the State of Florida.

Sincerely

Andre Carnegie
Branch Operations Manager

Attachment

Service Provider Information Form

Date: _____

Service Provider Name: _____

Location: _____

Telephone #: _____

Basic services you can provide in the event of: _____
(Release, Fire or Exposure)

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

By: _____



Van Waters & Rogers Inc.

A ROYAL PAKHOED COMPANY

2750 SOUTHPORT RD.
SPARTANBURG, SC 29302

TEL: (864) 580-2100
FAX: (864) 580-2134
FAX: (864) 580-2104
WWW.VWR-NA.COM

July 28, 1998

VIA FEDERAL EXPRESS MAIL

Gilbert Dembeck
Environmental Specialist
State of Florida
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619

RE: *Hazardous Waste Inspection - July 17, 1998*
Van Waters & Rogers Inc. - Tampa, FL
EPA ID #020985727



Dear Mr. Dembeck:

As mentioned in our phone conversation this morning, I have spoken with Andre Carnegie, the Operations Manager at our Tampa facility, concerning the recent inspection conducted on July 17, 1998. Attached are the items noted on your exit interview with our corrective action and response to each item.

Van Waters & Rogers is committed to compliance with applicable regulations to protect human health and the environment.

If you have any questions or concerns, please feel free to contact me at 864-580-2126.

Sincerely,

Michael D. Thornton
Regional Environmental Manager

MDT/pm

cc: Andre Carnegie

Gary Tonry

Attachment

Exit Interview Item	Corrective Action
#3 - Manifest Deficiencies: Manifest 98003 Manifest 98001	Although we at Van Waters & Rogers conduct annual training sessions on all aspects of the handling and transportation of hazardous waste, we will cover the manifest errors with responsible parties for an immediate correction to help eliminate possible problems in the future.
#5 - Contingency Plan: arrangements with local authorities described, update of emergency coordination proof of distribution.	Van Waters & Rogers does have a procedure in place to update emergency coordination with local authorities. The last update was hand delivered and we were not able to retrieve a signature, but did receive the individual business cards. I have attached blank copies of our procedure and blank forms.
#7 - Container Requirements: revise container inspection records.	We will revise our existing container inspection record per your request.
#15 - Mercury Containing Lamps: containerize and label.	At the time of your inspection, we were waiting the arrival of containers to containerize for disposal the fluorescent lamps. In the future, these lamps will be containerized and labeled.
Boiler Blowdown and Cooling Water Discharge	The boiler blowdown and cooling water discharge will be re-routed for discharge to the elementary neutralization tank.

SECTION II. DISTRIBUTION OF THE PLAN
(Arrangements with Local Authorities)

Each branch will maintain one original copy of the plan. It is to be kept in an accessible location, as designated and communicated to all employees.

Note: Pages 11 - 14 and appendices A, B, and C contain information that must be completed and updated by the individual branch. All changes to these pages must be provided to all plan copy holders after every update.

Copies of the complete plan are to be distributed to all emergency services agencies reasonably expected to be called upon in the event of an emergency. The recipients are to acknowledge receipt of the plan. At the end of this section is an example of a letter of transmittal which may be used to distribute the plan. The best method for distributing the plan, however, is to hand deliver it. The following organizations are to be sent a copy of this plan:

- Local Fire Department
- Local Police Department
- Local Hospital/Emergency Room
- Appropriate State Agencies

The Local Emergency Planning Commission is responsible for sending copies of this plan to concerned citizens and members of the community.

Depending on the location, there may be other organizations that would receive a copy of the plan:

- Rescue Teams
- Emergency Ambulance Corps
- HazMat Agencies

Copies of all current receipts and letters of transmittal are to be kept on file and be readily available for inspection at the Branch.

7/90

5

Current Date

Police Department
Fire Department
Hospital
Local Emergency Planning Commission

Re: Van Waters & Rogers Inc.
Branch Street Address
City, State, Zip Code

Dear Director:

Van Waters and Rogers, Inc. operates a chemical distribution center at the above address. In our continuing effort to keep informed emergency service agencies and others who potentially may be called upon during an emergency situation at our facility, we are providing you with a copy of our most current Emergency/Contingency Plan. Knowledge of our facility and its operations as discussed in our Emergency/Contingency Plan will help you provide informed emergency assistance to us in the unlikely event of a fire, explosion, or the release of a toxic material.

We are required by the Resource Conservation and Recovery Act, and the Superfund Amendments and Reauthorization Act to show that we have informed local emergency assistance facilities such as yours of the equipment, supplies, and plans we have in-place in the event of an emergency at our facility. We ask that you review the plan, and sign and return a copy of this letter in the enclosed envelope. Also, we would appreciate your comments or suggestions on the plan in order to assist us in making it as useful as possible to those who may be involved in an emergency situation at our facility.

Thank you for your cooperation in this regard.

Very truly yours,

Name
Title

Acknowledgement:

Name: _____

Title: _____

Date: _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
3804 COCONUT PALM DR.
TAMPA, FLORIDA 33619

Photos

Protecting Florida and Your Quality of Life

Freehold Cartage, Inc.

Facsimile

To: Gill Demback
Fax:
From: Mike Pasavento
Date: 7-22-98 Time:
Re: How many you talked to
Pages: 3

Thank You
Mike



TRANSPORTER'S

Emergency Contact Telephone Number

UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

F L D 9 8 2 1 6 2 2 6 5

Manifest
Document No.

9 3 0 0 3

2. Page 1
of 1Information in the shaded areas is
not required by Federal law.

3. Generator's Name and Mailing Address

GOLD COAST MARBLE INC
3413 SW 14TH ST
DEERFIELD BCH, FL 33442

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (

954

481-3643

EMERGENCY CONTACT: 30X 15

5. Transporter 1 Company Name

FREEHOLD CARTAGE

6. US EPA ID Number

F L D 0 5 4 1 2 6 1 6 4

C. State Transporter's ID

D. Transporter's Phone 941-533-6595

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

LAIDLAW ENVIRONMENTAL SERVICES
170 BARTOW MUNIC AIRPORT
BARTOW, FL 33830

10. US EPA ID Number

F L D 4 3 0 7 2 9 6 1 0

G. State Facility's ID

H. Facility's Phone

813-533-6111

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

HAZ

a. RQ, WASTE ACETONE
3, UN1090, PG II, (RQ-100), (EPA F003 D001),
(ERG 127)

12. Containers

No.

Type

13. Total
Quantity14. Unit
Wt/Vol

15. Waste No.

001

D M

55

G

F003, D001

J. Additional Descriptions for Materials Listed Above

11a. 1503 DI ACETONE

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PROTECTIVE GEAR WHEN HANDLING.
EMERGENCY CONTACT: CHEMTREC: 1-800-424-9300. CALLER MUST IDENTIFY VAN VATERS &
ROGERS AS SHIPPER.18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified,
packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically
practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health
and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is
available to me and that I can afford.

Printed/Typed Name

Jason Freeman

Signature

Jason Freeman

Month Day Year

10/03/98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

DONALD C. Dyer

Signature

Donald C. Dyer

Month Day Year

10/03/98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Scott Winfree

Signature

Scott Winfree

Month Day Year

10/03/98

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Heather Cochran

Signature

Heather Cochran

Month Day Year

10/03/98

TRANSPORTER #1

VAN WATERS & ROGERS, INC.

6049 OLD 41A HIGHWAY
TAMPA, FLORIDA 33619
Ph: 813/677-8414 Fax: 813/671-2920

FAX COVER SHEET

TO: Mr Dembeck

COMPANY: _____

DEPARTMENT: _____ FAX #: 813 744 61-25

FROM: **DONNIE REDD, CHLORINE SUPERVISOR**

PHONE: (813) 677-8414 FAX: (813) 671-2920 VOICE MAIL: (800) 284-6264 EXT: 9704

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DATE: 7-20-98 NUMBER OF PAGES: (INCLUDING THIS ONE): 4 fax of 10 sheets

COMMENTS: Hope this info is helpful

Don Redd

REPORT NUMBER: 971

MSDS NO: DZ22366

MAINFRAME UPLOAD DATE: 05/12/99

VAN WATERS & ROGERS INC.
MATERIAL SAFETY DATA SHEET

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VERSION: 009

PRODUCT: GLYCOL ETHER EB

ORDER NO:

PROD NO :

VAN WATERS & ROGERS INC. , A ROYAL PAKHOED COMPANY (425)887-3400
6100 CARILLON POINT , KIRKLAND , WA 98033

----- EMERGENCY ASSISTANCE -----

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(800)424-9300

PRODUCT NAME:
GLYCOL ETHER EB

MSDS #: DZ22366

2. COMPOSITION/INFORMATION ON INGREDIENTS

ETHYLENE GLYCOL N-BUTYL ETHER

CAS# 000111-76-2 99%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

* CLEAR LIQUID. ETHER ODOR. CAUSES EYE IRRITATION. HARMFUL IF *
* INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. COMBUSTIBLE. *

POTENTIAL HEALTH EFFECTS (SEE SECTION 11 FOR TOXICOLOGICAL DATA.)

EYE: MAY CAUSE MODERATE EYE IRRITATION WHICH MAY BE SLOW TO HEAL.
MAY CAUSE MODERATE CORNEAL INJURY. EFFECTS MAY BE SLOW TO HEAL.
VAPORS MAY IRRITATE EYES.

SKIN: PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN
IRRITATION. A SINGLE PROLONGED EXPOSURE MAY RESULT IN THE
MATERIAL BEING ABSORBED IN HARMFUL AMOUNTS. EXCESSIVE

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EXPOSURE MAY CAUSE HEMOLYSIS, THEREBY IMPAIRING THE BLOOD'S ABILITY TO TRANSPORT OXYGEN. REPEATED MINOR EXPOSURE MAY RESULT IN ABSORPTION OF HARMFUL AMOUNTS.

INGESTION: SINGLE DOSE ORAL TOXICITY IS CONSIDERED TO BE MODERATE. SMALL AMOUNTS SWALLOWED INCIDENTAL TO NORMAL HANDLING OPERATIONS ARE NOT LIKELY TO CAUSE INJURY; SWALLOWING AMOUNTS LARGER THAN THAT MAY CAUSE INJURY. ONE CASE OF MASSIVE INGESTION (I.E., ATTEMPTED SUICIDE) REPORTED BLOOD (HEMOLYSIS) AND KIDNEY EFFECTS.

INHALATION: A SINGLE PROLONGED (HOURS) EXCESSIVE INHALATION EXPOSURE MAY CAUSE ADVERSE EFFECTS. EXCESSIVE EXPOSURE MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT. OBSERVATIONS IN ANIMALS INCLUDE BLOOD AND KIDNEY EFFECTS.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: OBSERVATIONS IN ANIMALS INCLUDE BLOOD AND KIDNEY EFFECTS.

CANCER INFORMATION: NO RELEVANT INFORMATION FOUND.

TERATOLOGY (BIRTH DEFECTS): BIRTH DEFECTS ARE UNLIKELY. EXPOSURES HAVING NO EFFECT ON THE MOTHER SHOULD HAVE NO EFFECT ON THE FETUS. DID NOT CAUSE BIRTH DEFECTS IN ANIMALS; OTHER EFFECTS WERE SEEN IN THE FETUS ONLY AT DOSES WHICH CAUSED TOXIC EFFECTS TO THE MOTHER.

REPRODUCTIVE EFFECTS: IN LABORATORY ANIMAL STUDIES, EFFECTS ON REPRODUCTION HAVE BEEN SEEN ONLY AT DOSES THAT PRODUCED SIGNIFICANT TOXICITY TO THE PARENT ANIMALS.

4. FIRST AID

EYE: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.

SKIN: IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN IF IRRITATION PERSISTS. WASH CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES.

INGESTION: IF SWALLOWED, INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT MEDICAL PERSONNEL.

INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A PHYSICIAN.

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NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE.
TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO
REACTIONS OF THE PATIENT.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 150F, 65.5C

METHOD USED: TCC

AUTOIGNITION TEMPERATURE: 471F, 244C

FLAMMABILITY LIMITS

LFL: 1.1% VOL.

UFL: 10.6% VOL.

HAZARDOUS COMBUSTION PRODUCTS: DURING A FIRE, SMOKE MAY
CONTAIN THE ORIGINAL MATERIAL IN ADDITION TO TOXIC AND/OR
IRRITATING COMPOUNDS. HAZARDOUS COMBUSTION PRODUCTS MAY
INCLUDE AND ARE NOT LIMITED TO: CARBON MONOXIDE, CARBON
DIOXIDE.

OTHER FLAMMABILITY INFORMATION: VIOLENT STEAM GENERATION OR ERUP-
TION MAY OCCUR UPON APPLICATION OF DIRECT WATER STREAM TO HOT
LIQUIDS. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL A LONG DIS-
TANCE AND ACCUMULATE IN LOW LYING AREAS. IGNITION AND/OR FLASH
BACK MAY OCCUR. SPILLS OF THESE ORGANIC LIQUIDS ON HOT FIBROUS
INSULATIONS MAY LEAD TO LOWERING OF THE AUTOIGNITION TEMPERA-
TURES POSSIBLY RESULTING IN SPONTANEOUS COMBUSTION.

EXTINGUISHING MEDIA: WATER FOG OR FINE SPRAY. CARBON DIOXIDE.
DRY CHEMICAL. FOAM. ALCOHOL RESISTANT FOAMS (ATC TYPE) ARE
PREFERRED IF AVAILABLE. GENERAL PURPOSE SYNTHETIC FOAMS
(INCLUDING AFFF) OR PROTEIN FOAMS MAY FUNCTION, BUT MUCH LESS
EFFECTIVELY.

MEDIA TO BE AVOIDED: DO NOT USE DIRECT WATER STREAM.

FIRE FIGHTING INSTRUCTIONS: KEEP PEOPLE AWAY. ISOLATE FIRE AREA
AND DENY UNNECESSARY ENTRY. BURNING LIQUIDS MAY BE MOVED BY
FLUSHING WITH WATER TO PROTECT PERSONNEL AND MINIMIZE PROPERTY
DAMAGE. BURNING LIQUIDS MAY BE EXTINGUISHED BY DILUTION WITH
WATER. DO NOT USE DIRECT WATER STREAM. MAY SPREAD FIRE.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: WEAR POSITIVE-PRESSURE
SELF-CONTAINED BREATHING APPARATUS (SCBA) AND PROTECTIVE FIRE
FIGHTING CLOTHING (INCLUDES FIRE FIGHTING HELMET, COAT, PANTS,
BOOTS, AND GLOVES). IF PROTECTIVE EQUIPMENT IS NOT AVAILABLE

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OR NOT USED, FIGHT FIRE FROM A PROTECTED LOCATION OR SAFE DISTANCE.

6. ACCIDENTAL RELEASE MEASURES (SEE SECTION 15 FOR REGULATORY INFORMATION)

PROTECT PEOPLE: ELIMINATE ALL SOURCES OF IGNITION IN VICINITY OF SPILL OR RELEASED VAPOR TO AVOID FIRE OR EXPLOSION. FOR LARGE SPILLS, WARN PUBLIC OF DOWNWIND EXPLOSION HAZARD. CHECK AREA WITH EXPLOSION METER BEFORE REENTERING AREA. GROUND AND BOND ALL CONTAINERS AND HANDLING EQUIPMENT.

PROTECT THE ENVIRONMENT: VAPOR EXPLOSION HAZARD, KEEP OUT OF SEWERS.

CLEANUP: PUMP WITH EXPLOSION-PROOF EQUIPMENT. ABSORB WITH MATERIAL SUCH AS DIRT OR SAND. IF AVAILABLE, USE FOAM TO SMOTHER OR SUPPRESS.

7. HANDLING AND STORAGE

HANDLING: CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN VAPORS. DO NOT CUT, DRILL, GRIND, WELD, OR PERFORM SIMILAR OPERATIONS ON OR NEAR EMPTY CONTAINERS. NO SMOKING, OPEN FLAMES OR SOURCES OF IGNITION IN HANDLING AND STORAGE AREA. NEVER USE AIR PRESSURE FOR TRANSFERRING PRODUCT. ELECTRICALLY GROUND ALL EQUIPMENT.

STORAGE: USE OF NON-SPARKING OR EXPLOSION PROOF EQUIPMENT MAY BE NECESSARY, DEPENDING UPON THE TYPE OF OPERATION. MINIMIZE SOURCES OF IGNITION, SUCH AS STATIC BUILDUP, HEAT, SPARK OR FLAME. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. STORE IN CARBON STEEL, STAINLESS STEEL, TEFLON.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: USE CHEMICAL GOGGLES. IF VAPOR EXPOSURE CAUSES EYE DISCOMFORT, USE A FULL-FACE RESPIRATOR.

SKIN PROTECTION: USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. SELECTION OF SPECIFIC ITEMS SUCH AS FACESHIELD.

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GLOVES, BOOTS, APRON, OR FULL-BODY SUIT WILL DEPEND ON OPERATION. SAFETY SHOWER SHOULD BE LOCATED IN IMMEDIATE WORK AREA. REMOVE CONTAMINATED CLOTHING IMMEDIATELY, WASH SKIN AREA WITH SOAP AND WATER, AND LAUNGER CLOTHING BEFORE REUSE. ITEMS WHICH CANNOT BE DECONTAMINATED, SUCH AS SHOES, BELTS AND WATCHBANDS, SHOULD BE REMOVED AND DESTROYED.

RESPIRATORY PROTECTION: ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDELINE. WHEN RESPIRATORY PROTECTION IS REQUIRED, USE AN APPROVED AIR-PURIFYING OR POSITIVE-PRESSURE SUPPLIED-AIR RESPIRATOR DEPENDING ON THE POTENTIAL AIRBORNE CONCENTRATION. FOR EMERGENCY AND OTHER CONDITIONS WHERE THE EXPOSURE GUIDELINE MAY BE GREATLY EXCEEDED, USE AN APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS OR POSITIVE-PRESSURE AIRLINE WITH AUXILIARY SELF-CONTAINED AIR SUPPLY.

EXPOSURE GUIDELINE: BUTOXYETHANOL: ACGIH TLV IS 20 PPM; OSHA PEL IS 25 PPM, SKIN.

PELS ARE IN ACCORD WITH THOSE RECOMMENDED BY OSHA, AS IN THE 1989 REVISION OF PELs.

A "SKIN" NOTATION FOLLOWING THE EXPOSURE GUIDELINE REFERS TO THE POTENTIAL FOR DERMAL ABSORPTION OF THE MATERIAL. IT IS INTENDED TO ALERT THE READER THAT INHALATION MAY NOT BE THE ONLY ROUTE OF EXPOSURE AND THAT MEASURES TO MINIMIZE DERMAL EXPOSURES SHOULD BE CONSIDERED.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CLEAR LIQUID.

ODOR: ETHER.

VAPOR PRESSURE: 0.82 MMHG @ 25C

VAPOR DENSITY: (AIR = 1) 4.10

BOILING POINT: 340F, 171C.

SOLUBILITY IN WATER: INFINITELY @ 25 DEG C.

SPECIFIC GRAVITY: .897 @ 25/25C.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT: 897 G/L OR 7.49 LBS/GAL
AS PER RULE 443.1 OF CALIFORNIA SCAGMD.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
SEE STORAGE SECTION.

CONDITIONS TO AVOID: AVOID STATIC DISCHARGE. FLAMMABLE VAPORS CAN BE RELEASED AT ELEVATED TEMPERATURES.

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INCOMPATIBILITY WITH OTHER MATERIALS: AVOID CONTACT WITH METALS SUCH AS: ZINC, MAGNESIUM, ALUMINUM AND GALVANIZED METALS. AVOID CONTACT WITH OXIDIZING MATERIAL.

HAZARDOUS DECOMPOSITION PRODUCTS: DOES NOT NORMALLY DECOMPOSE. HAZARDOUS DECOMPOSITION PRODUCTS DEPEND UPON TEMPERATURE, AIR SUPPLY AND THE PRESENCE OF OTHER MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION (SEE SECTION 3 FOR POTENTIAL HEALTH

EFFECTS. FOR DETAILED TOXICOLOGICAL DATA, WRITE OR CALL THE ADDRESS OR NON-EMERGENCY NUMBER SHOWN IN SECTION 1)

SKIN: THE LD50 FOR SKIN ABSORPTION IN RABBITS IS 220 MG/KG.

INGESTION: THE ORAL LD50 FOR RATS IS 470 MG/KG.

INHALATION: THE LD50 FOR RATS IS 700 PPM IN 7 HOURS.

MUTAGENICITY: IN VITRO MUTAGENICITY STUDIES WERE INCONCLUSIVE. ANIMAL MUTAGENICITY STUDIES WERE NEGATIVE.

12. ECOLOGICAL INFORMATION (FOR DETAILED ECOLOGICAL DATA, WRITE OR CALL

THE ADDRESS OR NON-EMERGENCY NUMBER SHOWN IN SECTION 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: BIOCONCENTRATION POTENTIAL IS LOW (BCF LESS THAN 100 OR LOG POW LESS THAN 3). LOG OCTANOL/WATER PARTITION COEFFICIENT (LOG POW) IS 0.83. HENRY'S LAW CONSTANT (H) IS ESTIMATED TO BE $2.08E-7$ ATM.M3/MOLE. LOG SOIL ORGANIC CARBON PARTITION COEFFICIENT (LOG KOC) IS ESTIMATED TO BE 1.83. POTENTIAL FOR MOBILITY IN SOIL IS HIGH (KOC BETWEEN 50 AND 150).

DEGRADATION & PERSISTENCE: BIODEGRADATION UNDER AEROBIC STATIC LABORATORY CONDITIONS IS HIGH (BOD20 OR BOD28/THOD GREATER THAN 40%).

5-DAY BIOCHEMICAL OXYGEN DEMAND (BOD5) IS 0.12 P/P.

20-DAY BIOCHEMICAL OXYGEN DEMAND (BOD20) IS 1.66 P/P.

THEORETICAL OXYGEN DEMAND (THOD) IS CALCULATED TO BE 2.30 P/P.

10-DAY BIOCHEMICAL OXYGEN DEMAND (BOD10) IS 1.32 P/P.

UNDER ANAEROBIC AQUATIC CONDITIONS THE HALF-LIFE IS: 1.4 DAYS.

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UNDER AEROBIC SOIL CONDITIONS THE HALF-LIFE IS: 0.9-1.4 HR.
UNDER AEROBIC AQUATIC CONDITIONS THE HALF-LIFE IS: 0.6-0.4
DAYS.

ECOTOXICITY: MATERIAL IS PRACTICALLY NON-TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50 GREATER THAN 100 MG/L IN MOST SENSITIVE SPECIES). ACUTE LC50 FOR FATHEAD MINNOW (PIMEPHALES PROMELAS) IS 1700-2137 MG/L. ACUTE LC50 FOR WATER FLEA (DAPHNIA MAGNA) IS 835-1720 MG/L. ACUTE LC50 FOR BLUEGILL (LEPOMIS MACROCHIRUS) IS 127 MG/L. ACUTE LC50 FOR RAINBOW TROUT (ONCORHYNCHUS MYKISS) IS GREATER THAN 1000 MG/L. ACUTE LC50 FOR GUPPY (POECILIA RETICULATA) IS 983 MG/L. ACUTE LC50 FOR BROWN SHRIMP (CRANGON CRANGON) IS 775 MG/L. GROWTH INHIBITION THRESHOLD IN BACTERIA IS GREATER THAN 1000 MG/L. GROWTH INHIBITION EC50 FOR GREEN ALGA SELENASTRUM CAPRICORNUTUM IS GREATER THAN 1000 MG/L.

13. DISPOSAL CONSIDERATIONS (SEE SECTION 15 FOR REGULATORY INFORMATION)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. ALL DISPOSAL METHODS MUST BE IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL LAWS AND REGULATIONS. REGULATIONS MAY VARY IN DIFFERENT LOCATIONS. WASTE CHARACTERIZATIONS AND COMPLIANCE WITH APPLICABLE LAWS ARE THE RESPONSIBILITY SOLELY OF THE WASTE GENERATOR. THE VENDOR HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (COMPOSITION/INFORMATION ON INGREDIENTS).

FOR UNUSED & UNCONTAMINATED PRODUCT, THE PREFERRED OPTIONS INCLUDE SENDING TO A LICENSED, PERMITTED: RECYCLER, RECLAIMER, INCINERATOR OR OTHER THERMAL DESTRUCTION DEVICE.

1.4. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): FOR DOT REGULATORY INFORMATION, IF REQUIRED, CONSULT TRANSPORTATION REGULATIONS, PRODUCT SHIPPING PAPERS, OR YOUR VENDOR REPRESENTATIVE.

CANADIAN TDG INFORMATION: FOR TDG REGULATORY INFORMATION, IF REQUIRED, CONSULT TRANSPORTATION REGULATIONS, PRODUCT SHIPPING PAPERS, OR YOUR VENDOR REPRESENTATIVE.

15. REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE--SELECTED
REGULATIONS REPRESENTED)

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SARA 313 INFORMATION: THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1984 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
GLYCOL ETHERS		99 %

SARA HAZARD CATEGORY: THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1984 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:

AN IMMEDIATE HEALTH HAZARD
A DELAYED HEALTH HAZARD
A FIRE HAZARD

TOXIC SUBSTANCES CONTROL ACT (TSCA):

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

THE CAS NUMBER FOR TSCA IS 000111-76-2.

STATE RIGHT-TO-KNOW: THE FOLLOWING PRODUCT COMPONENTS ARE CITED ON CERTAIN STATE LISTS AS MENTIONED. NON-LISTED COMPONENTS MAY BE SHOWN IN THE COMPOSITION SECTION OF THE MSDS.

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CHEMICAL NAME	CAS NUMBER	LIST
ETHYLENE GLYCOL N-BUTYL ETHER	000111-76-2	NJ3 PA1 %

NJ3=NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE (PRESENT AT GREATER THAN OR EQUAL TO 1.0%).

PA1=PENNSYLVANIA HAZARDOUS SUBSTANCE (PRESENT AT GREATER THAN OR EQUAL TO 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

CANADIAN REGULATIONS

=====

WHMIS INFORMATION: THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION FOR THIS PRODUCT IS:

- 03 - COMBUSTIBLE LIQUID WITH A FLASH POINT BETWEEN 37.8C AND 93.3C
- 013 - MATERIAL IS TOXIC WITH SHORT EXPOSURE AND MODERATE DOSE
- 018 - POISONOUS SUBSTANCE DEFINED BY TDS REGULATIONS
- 028 - EYE OR SKIN IRRITANT

REFER ELSEWHERE IN THE MSDS FOR SPECIFIC WARNINGS AND SAFE HANDLING INFORMATION. REFER TO THE EMPLOYER'S WORKPLACE EDUCATION PROGRAM.

CPR STATEMENT: THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

HAZARDOUS PRODUCTS ACT INFORMATION: THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS WHICH ARE CONTROLLED PRODUCTS AND/OR ON THE INGREDIENT DISCLOSURE LIST (CANADIAN HPA SECTION 13 AND 14):

COMPONENTS:	CAS #	AMOUNT(X#/4)
ETHYLENE GLYCOL N-BUTYL ETHER	CAS# 000111-76-2	99%

16. OTHER INFORMATION

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NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

FOR ADDITIONAL INFORMATION

CONTACT: MSDS COORDINATOR VAN WATERS & ROGERS INC.
 DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400

07/20/98 07:51 PRODUCT: CUST NO: ORDER NO:

NOTICE

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*** END OF MSDS ***

VAN WATERS & ROGERS, INC.

6049 OLD 41A HIGHWAY
TAMPA, FLORIDA 33619
Ph: 813/677-8414 Fax: 813/671-2920

FAX COVER SHEET

TO: Mr Dembeck

COMPANY: _____

DEPARTMENT: _____ FAX #: 813 744 61-25

FROM: **DONNIE REDD, CHLORINE SUPERVISOR**

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DATE: 7-20-98 NUMBER OF PAGES: (INCLUDING THIS ONE): 4 fax of 10 sheets

COMMENTS: Hope this info is helpful

Don Redd

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PRODUCT: ISOPROPANOL, ANHYDROUS

ORDER NO:
PROD NO :

VAN WATERS & ROGERS INC., A ROYAL PAKHOED COMPANY (425)887-3400
6100 CARILLON POINT, KIRKLAND, WA 98033

----- EMERGENCY ASSISTANCE -----

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMTREC
(800)424-9300

PRODUCT NAME:
ISOPROPANOL, ANHYDROUS

MSDS #: UZC0110F

02/24/93 EFFECTIVE DATE

I. IDENTIFICATION

PRODUCT NAME: ISOPROPANOL, ANHYDROUS

CHEMICAL NAME: Isopropyl Alcohol

CHEMICAL FAMILY: Alcohols

FORMULA: $(CH_3)_2CHOH$

MOLECULAR WEIGHT: 60.10

SYNONYMS: 2-Propanol; dimethyl carbinol

CAS # AND NAME:
67-63-0
2-Propanol

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II. PHYSICAL DATA (Determined on typical material)

BOILING POINT, 760 mm Hg: 82.26 C 180.07 F

SPECIFIC GRAVITY(H₂O = 1): 0.7964 AT 20/20 C

FREEZING POINT: -89.5 C -127.3 F

VAPOR PRESSURE AT 20°C: 33 mmHg

VAPOR DENSITY (air = 1): 2.07

EVAPORATION RATE:
(Butyl Acetate = 1): 2.86

SOLUBILITY IN WATER by wt: Complete
AT 20 C

APPEARANCE: Transparent colorless

ODOR: Characteristic

PHYSICAL STATE: Liquid

PERCENT VOLATILES (by weight): 100

III. INGREDIENTS

%	MATERIAL	CAS#	EXPOSURE LIMIT
100	Isopropanol	67-63-0	See Section V

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method(s)): 53 F 12 C
63 F 17 C
Tag Open Cup ASTM D 1310

FLAMMABLE LIMITS IN AIR, by volume:

LOWER: 2.0
UPPER: 12.7 A 200 F

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EXTINGUISHING MEDIA:

Apply alcohol-type or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

SPECIAL FIRE FIGHTING PROCEDURES:

Use water spray to cool fire-exposed containers and structures.
Use water spray to disperse vapors; re-ignition is possible.
Use self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point.
Vapors from this material may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively.
This material may produce a floating fire hazard.

V. HEALTH HAZARD DATA

TLV AND SOURCE:

Isopropanol: 400 ppm TWA, OSHA & ACGIH
500 ppm STEL, OSHA & ACGIH

EFFECTS OF SINGLE OVEREXPOSURE:

SWALLOWING:

Slightly toxic. May cause abdominal discomfort, nausea, vomiting and diarrhea.
Loss of consciousness may occur.
Drowsiness may occur.

SKIN ABSORPTION:

Exposure to small quantities is not expected to cause adverse health effects.
Widespread or prolonged exposure may result in the absorption of harmful amounts of material, particularly in infants, leading to signs and symptoms as described for swallowing.

INHALATION:

Vapor causes irritation of the respiratory tract, with coughing and chest discomfort.
High concentrations of vapor may cause headache and drowsiness.

SKIN CONTACT:

May cause minor irritation with itching and possible slight local redness.
Prolonged or repeated contact may cause defatting and drying of the skin.

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EYE CONTACT:

Causes irritation, experienced as stinging and discomfort or pain.
Corneal injury may occur.

EFFECTS OF REPEATED OVEREXPOSURE:

No adverse effects anticipated from available information.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

Skin contact may aggravate an existing dermatitis.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN
HEALTH HAZARD EVALUATION:

None currently known.

OTHER EFFECTS OF OVEREXPOSURE:

None currently known.

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING:

If patient is fully conscious, give two glasses of water. Induce vomiting.
Obtain medical attention.

SKIN:

Remove contaminated clothing. Wash skin with soap and water. If irritation
persists or if contact has been prolonged, obtain medical attention.

INHALATION:

Remove to fresh air. Give artificial respiration if not breathing. If
breathing is difficult, oxygen may be given by qualified personnel. Obtain
medical attention.

EYES:

Immediately flush eyes with water and continue washing for several minutes.
Obtain medical attention.

NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at
the control of symptoms and the clinical condition of the patient.

VI. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID:

None known.

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INCOMPATIBILITY (materials to avoid):

Strong oxidizing agents.
Halogens.
Strong inorganic acids.
Aldehydes.
Halogen compounds.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

Burning can produce the following combustion products:
Carbon monoxide and/or carbon dioxide.
Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID:

None known.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Extinguish and do not turn on any ignition source until the area is determined to be free from fire or explosion hazard.
Wear suitable protective equipment.
Avoid contact with eyes.
Small spills can be flushed with large amounts of water; larger spills should be collected for disposal.

WASTE DISPOSAL METHOD:

Incinerate in a furnace where permitted under Federal, State, and local regulations.

At very low concentrations in water, this product is biodegradable in a biological wastewater treatment plant.

VIII. SPECIAL PROTECTION

RESPIRATORY PROTECTION (specify type):

Use self-contained breathing apparatus in high vapor concentrations.

VENTILATION:

General (mechanical) room ventilation is expected to be satisfactory where this product is stored and handled in closed equipment.
Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

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PROTECTIVE GLOVES:

Plastic

Rubber

EYE PROTECTION:

Moggles

OTHER PROTECTIVE EQUIPMENT:

Eye Bath, Safety Shower

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

WARNING! Flammable.

Causes eye irritation.

Keep away from heat, sparks, and flame.

Avoid contact with eyes.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

FOR INDUSTRY USE ONLY

OTHER PRECAUTIONS:

PROCESS HAZARD: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions.

Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Further information is available in a technical bulletin entitled

"Ignition Hazards of Organic Chemical Vapors."

TRANSFER HAZARD: Vapors of this product may be ignited by static sparks. Use proper bonding and grounding during liquid transfer as described in National Fire Protection Association document NFPA 77.

X. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:

The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations. Trade Secrets are indicated by "TS".

FEDERAL EPA

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Comprehensive Environmental Response Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4.

Components present in this product at a level which could require reporting under the statute are:

*** NONE ***

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

*** NONE ***

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

*** NONE ***

TSCA INVENTORY STATUS:

The ingredients of this product are on the TSCA inventory.

STATE RIGHT-TO-KNOW

CALIFORNIA Proposition 65

This product does not contain materials which the State of California has found to cause cancer, birth defects, or other reproductive harm.

MASSACHUSETTS 105 CMR 670.000 Right-To-Know, Substance List (MSL)

Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

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HAZARDOUS SUBSTANCES (=> 1%)

CHEMICAL
Isopropanol

CAS NUMBER
67-63-0

UPPER BOUND
CONCENTRATION %
100

PENNSYLVANIA Right-To-Know, Hazardous Substance List
Hazardous Substances and Special Hazardous Substances on the List must be
identified when present in products.

Components present in this product at a level which could require
reporting under the statute are:

HAZARDOUS SUBSTANCES (=> 1%)

CHEMICAL
Isopropanol

CAS NUMBER
67-63-0

UPPER BOUND
CONCENTRATION %
100

CALIFORNIA SCAQMD RULE 443.1 VOC'S:
VOC 785 g/l; Vapor Pressure 33 mm Hg @ 20 C

OTHER REGULATORY INFORMATION:

None

REVISED SECTIONS

Section V: HEALTH HAZARD DATA

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FOR ADDITIONAL INFORMATION

CONTACT: MSDS COORDINATOR VAN WATERS & ROGERS INC.
DURING BUSINESS HOURS, PACIFIC TIME (425)837-3400

07/20/98 07:47

PRODUCT:

CUST NO:

ORDER NO:

NOTICE

** VAN WATERS & ROGERS INC. ("VWAR"), A ROYAL DUTCH COMPANY, EXPRESSLY

DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED

HEREIN, AND SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR

CONSEQUENTIAL DAMAGES. **

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, VWAR MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR SUFFICIENCY. CONDITIONS OF USE ARE BEYOND VWAR'S CONTROL AND THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON, INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

*** END OF MSDS ***

VAN WATERS & ROGERS, INC.

6049 OLD 41A HIGHWAY
TAMPA, FLORIDA 33619
Ph: 813/677-8414 Fax: 813/671-2920

FAX COVER SHEET

TO: Mr Dembeck

COMPANY: _____

DEPARTMENT: _____ FAX #: 813 744 61-25

FROM: **DONNIE REDD, CHLORINE SUPERVISOR**

PHONE: (813) 677-8414 FAX: (813) 671-2920 VOICE MAIL: (800) 284-6264 EXT: 9704

E-MAIL ADDRESS: **DONNIE.REDD@VWR-INC.COM**

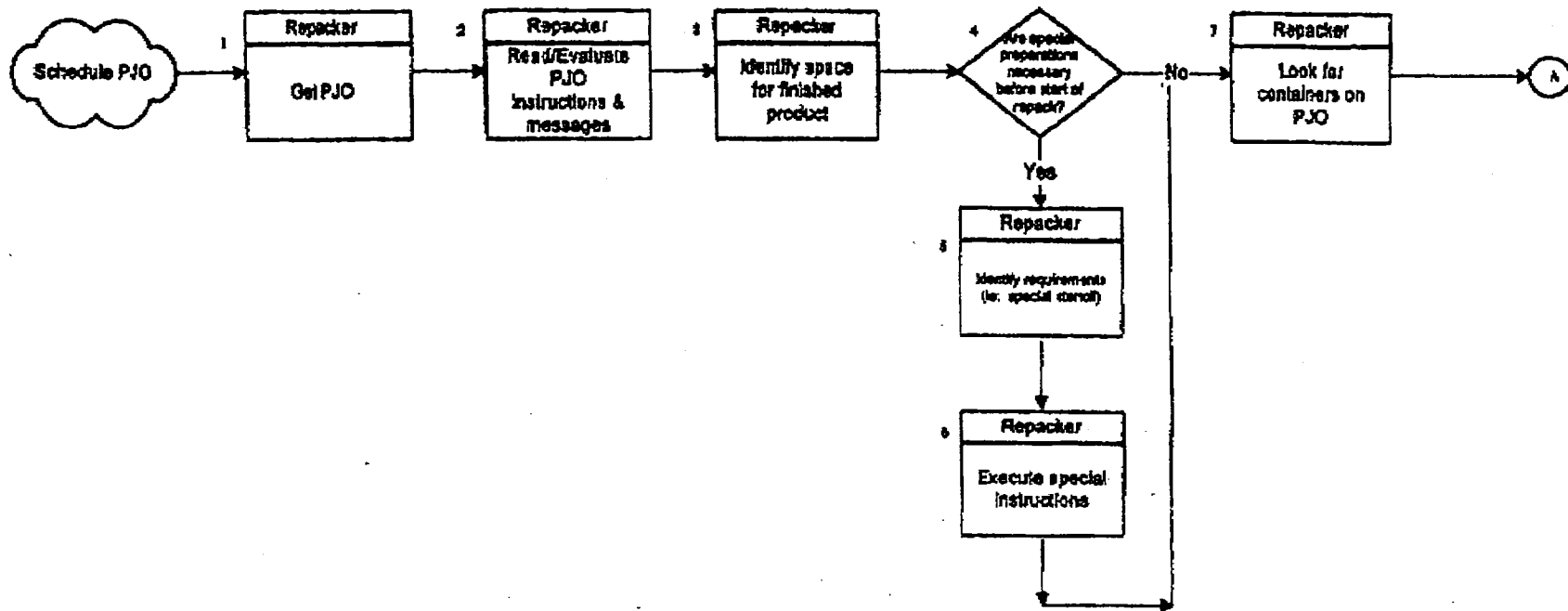
DATE: 7-20-98 NUMBER OF PAGES: (INCLUDING THIS ONE): 4 fax of 10 sheets

COMMENTS: Hope this info is helpful

Don Redd

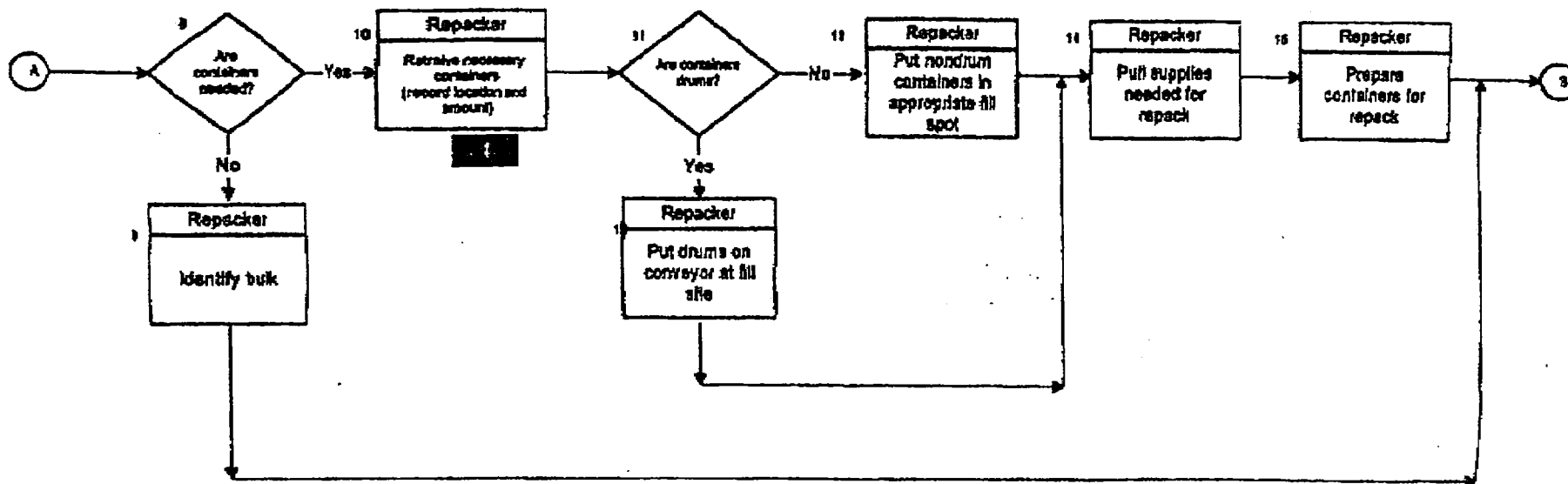
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Repack & Receive P. 's



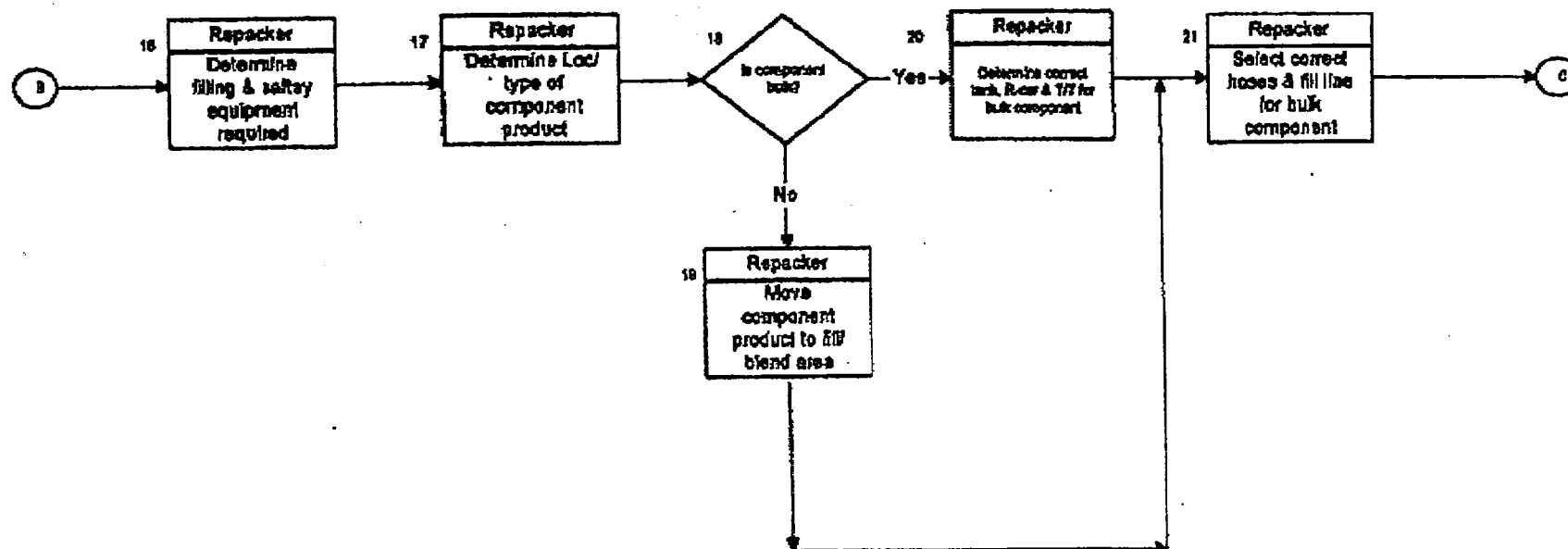
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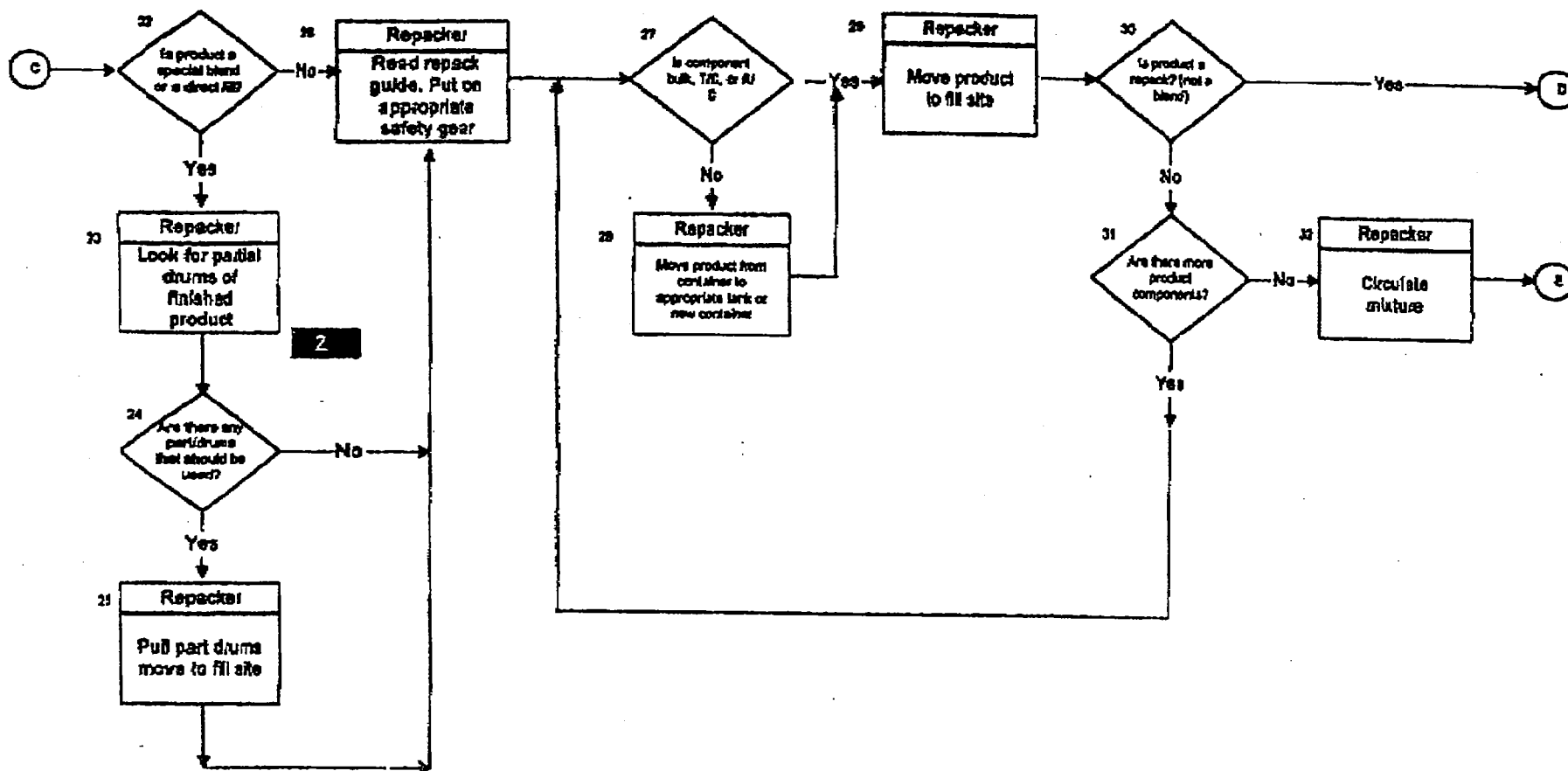
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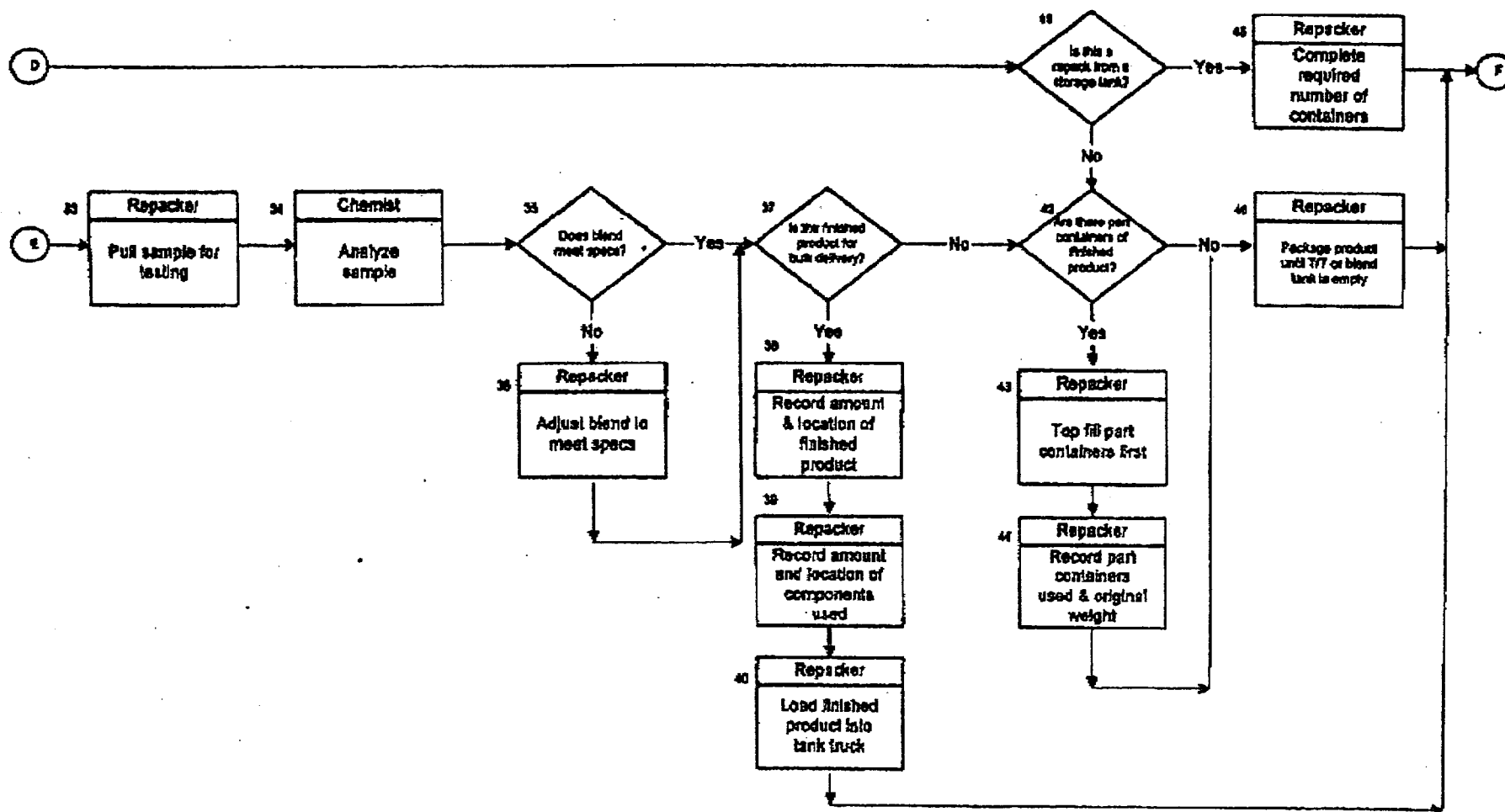
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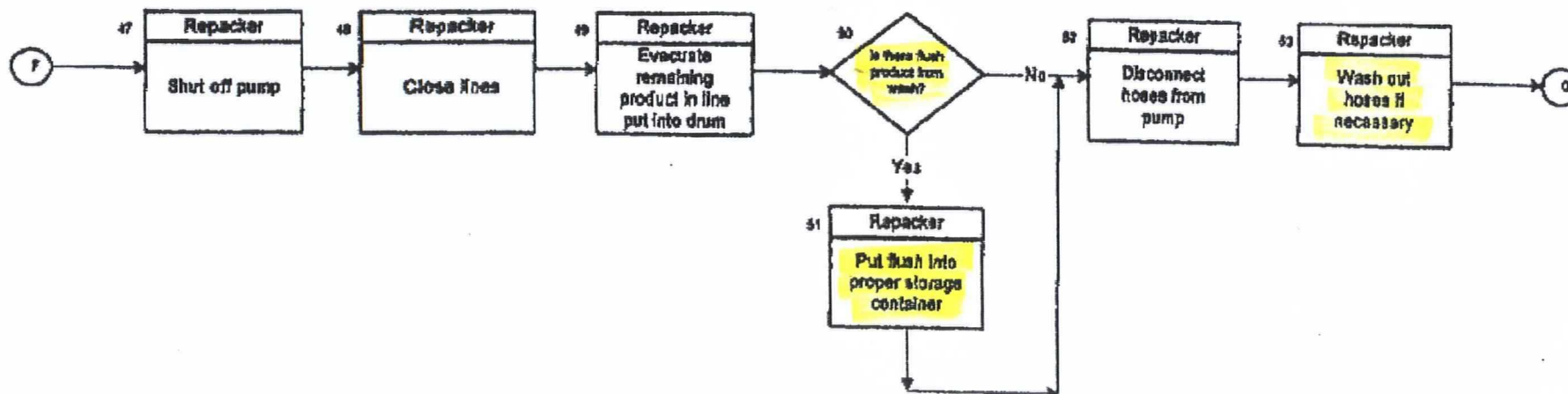
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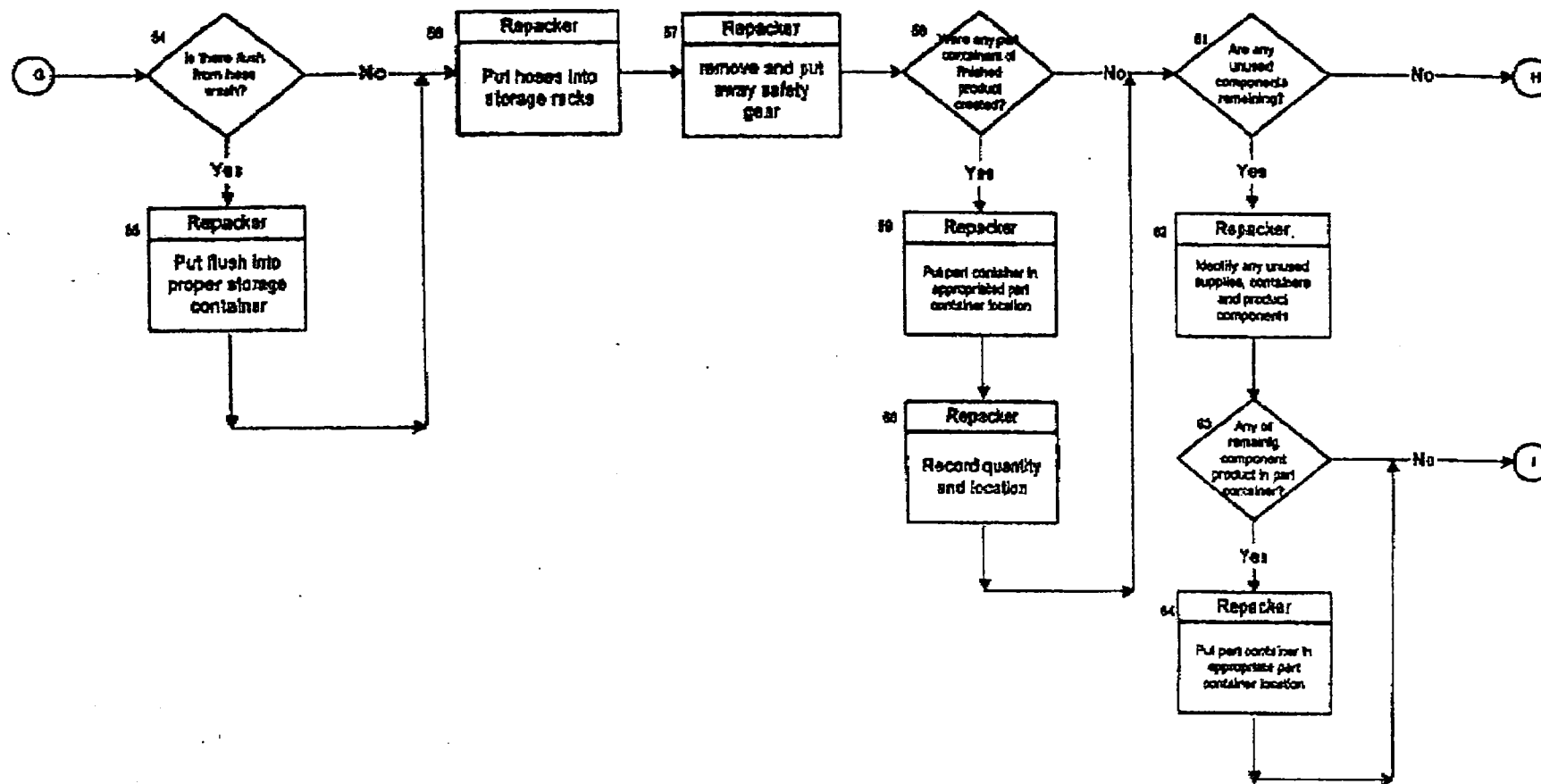
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Order Fulfillment

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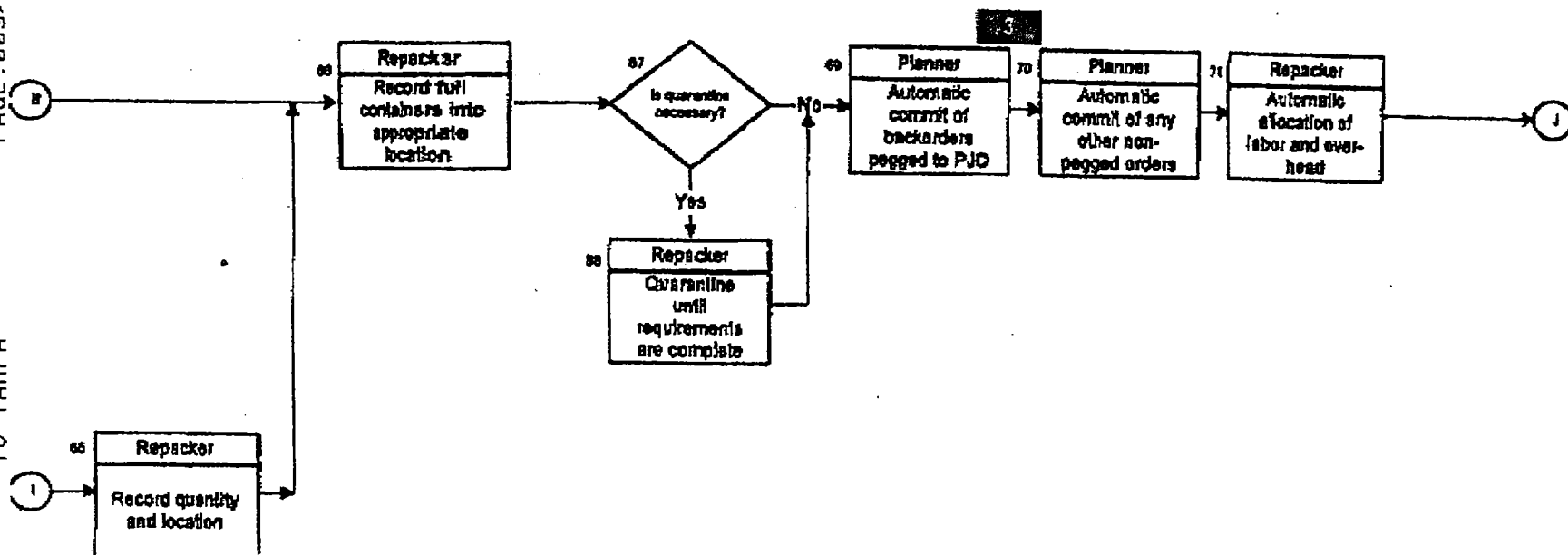


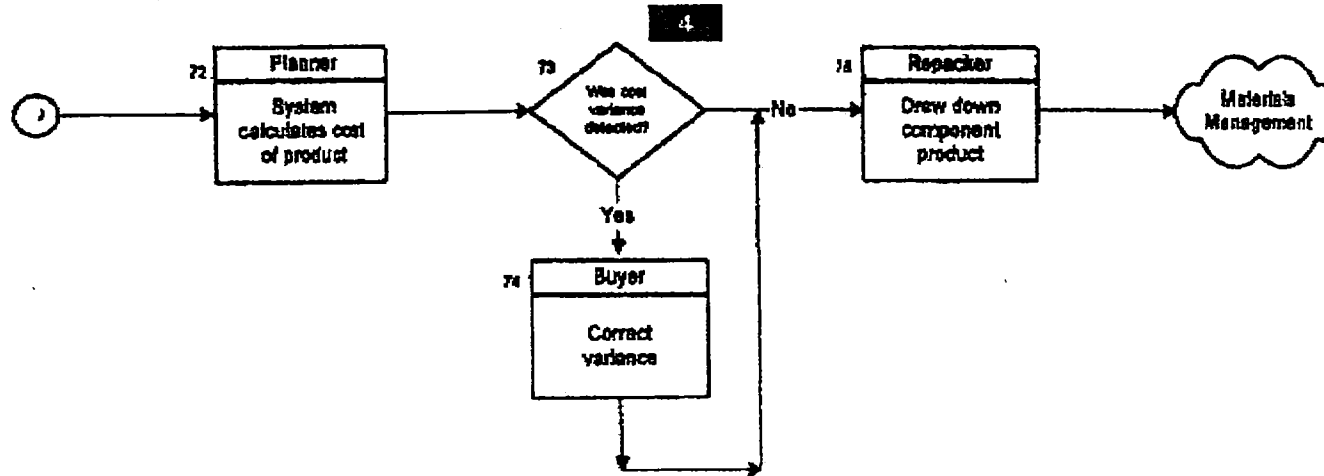


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TO TAMPA

JUL 20 '98 9:31 FROM VAN WATERS-ROGERS





LEGEND

- 1 Record quantities and locations in system from work site
- 2 Have system identify partial drum.
- 3 Automatic commit
- 4 Cost variances resolved before receipt. P.O. receipt not stopped by variance

VAN WATERS & ROGERS, INC.

6049 OLD 41A HIGHWAY
TAMPA, FLORIDA 33619
Ph: 813/677-8414 Fax: 813/671-2920

FAX COVER SHEETTO: Mr Dembeck

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PRODUCT: DOWFROST (R) HEAT TRANSFER FLUID

ORDER NO:
PROD NO :

VAN WATERS & ROGERS INC., A ROYAL PAKHOED COMPANY (425)889-3400
6100 CARILLON POINT KIRKLAND WA 98033

----- EMERGENCY ASSISTANCE -----

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMTREC
(800)424-9300

PRODUCT NAME:
DOWFROST (R) HEAT TRANSFER FLUID

MSDS #: DW23545

2. COMPOSITION/INFORMATION ON INGREDIENTS

Propylene glycol	CAS# 000037-55-6	95%
Dipotassium phosphate	CAS# 007758-11-4	<5%
Deionized water	CAS# 007732-18-6	<5%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless, odorless liquid. Toxic fumes released in fire situations.

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause slight transient eye irritation. Corneal injury is unlikely.

SKIN: Essentially nonirritating to skin on prolonged contact. A single prolonged skin exposure is not likely to result in the material being absorbed through skin in harmful amounts. Repeated exposures may cause slight flaking, tenderness and

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softening of skin.

INGESTION: Single dose oral toxicity is low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

INHALATION: A single prolonged (hours) inhalation exposure is not likely to cause adverse effects. Mists are not likely to be hazardous.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Repeated excessive ingestion may cause central nervous system effects.

CANCER INFORMATION: Did not cause cancer in long-term animal studies.

TERATOLOGY (BIRTH DEFECTS): Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus.

REPRODUCTIVE EFFECTS: In animal studies, has been shown not to interfere with reproduction.

4. FIRST AID

EYE: Flush eyes with plenty of water.

SKIN: Wash off in flowing water or shower.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: 215°F, 102°C

METHOD USED: TCC (Tag Open Cup)

FLAMMABLE LIMITS

LFL: 2.6% @ 100°C

UFL: 12.5% @ 130°C

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HAZARDOUS COMBUSTION PRODUCTS: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon monoxide, carbon dioxide.

OTHER FLAMMABILITY INFORMATION: Violent steam generation or eruption may occur upon application of direct water stream. Flammable concentration of vapor can accumulate at temperatures above 215.0 deg. F. Liquid mist of this product can burn. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

EXTINGUISHING MEDIA: Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Do not use direct water stream. Will spread fire.

MEDIA TO BE AVOIDED: Do not use direct water stream.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory

Information)

PROTECT PEOPLE: Clear non-emergency personnel from area.

PROTECT THE ENVIRONMENT: Contain liquid to prevent contamination of soil, surface water or ground water.

CLEANUP: Clean up with absorbent material. Sweep up.

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PRODUCT: DOWFROST (R) HEAT TRANSFER FLUID

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7. HANDLING AND STORAGE

HANDLING: Product on surfaces can cause slippery conditions.

STORAGE: Store below 121 C, 250 F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Use safety glasses.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

RESPIRATORY PROTECTION: No respiratory protection should be needed.

EXPOSURE GUIDELINE(S): Propylene glycol: AHA WEL is 50 ppm total, 10 mg/m3 aerosol only.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless.

ODOR: Odorless liquid.

VAPOR PRESSURE: 0.22 mmHg @ 20C, 68F

VAPOR DENSITY: 2.62

BOILING POINT: 370F, 188C

SOLUBILITY IN WATER: Complete

SPECIFIC GRAVITY: 1.050 @ 60/60F, 16C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Thermally stable at typical use temperatures.

CONDITIONS TO AVOID: Avoid temperatures above 121C/250F. Product can decompose at elevated temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition

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products depend upon temperature, air supply and the presence of other materials.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health

Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

SKIN: The LD50 for skin absorption in rabbits is greater than 10,000 mg/kg.

INGESTION: The oral LD50 for female rats is about 20.3 g/kg.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Results of in vitro (test tube) mutagenicity tests have been negative. Results of mutagenicity tests in animals have been negative.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call

the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

MOVEMENT AND PARTITIONING: Based largely or completely on data for major component(s). Bioconcentration potential is low (BCF less than 100 or Log Pow less than 3).

DEGRADATION AND PERSISTENCE: Based largely or completely on data for major component(s). Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%).

ECOTOXICITY: Based largely or completely on data for major component(s). Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).

13. DISPOSAL CONSIDERATIONS (See Section 13 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING

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ORDER NO:

PROD NO :

PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer.

As a service to its customers, Dow can provide lists of companies which recycle, reprocess or manage chemicals or plastics, and companies that manage used drums. Telephone Dow's Customer Information Center at 800-258-2436 or 517-632-1556 for further details.

14. TRANSPORT INFORMATION

CANADIAN TDG INFORMATION:

For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category

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TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
1,2-PROPANEDIOL	000057-55-6	PA1 PA3

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is not a "Controlled Product" under WHMIS.

16. OTHER INFORMATION

MSDS STATUS: Revised to 16-Section format.

(R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

REPORT NUMBER: 971 VAN WATERS & ROGERS INC.
MSDS NO: DW23543 MATERIAL SAFETY DATA SHEET
MAINFRAME UPLOAD DATE: 10/12/96

PAGE: 008
VERSION: 007

PRODUCT: DOWFROST (R) HEAT TRANSFER FLUID

ORDER NO:
PROD NO :

----- FOR ADDITIONAL INFORMATION -----

CONTACT: MSDS COORDINATOR VAN WATERS & ROGERS INC.
DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400

07/20/96 07:48 PRODUCT: CUST NO: ORDER NO:

----- NOTICE -----

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* * * E N D O F M S D S * * *

Emergency Contact Telephone Number

EPA Form 351-107-50

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

F L D 9 8 2 1 6 2 2 6 5

Manifest
Document No. 3

9 8 0 0 3

2. Page 1
(of 1Information in the shaded areas is
not required by Federal law.

3. Generator's Name and Mailing Address

GOLD COAST MARBLE INC
3413 SW 14TH ST
DEERFIEL BCH, FL 33442

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (

954

481-8648

EMERGENCY CONTACT: BOX 15

C. State Transporter's ID

5. Transporter 1 Company Name

FREEHOLD CARTAGE

6. US EPA ID Number

N J D 0 5 4 1 2 6 1 6 4

D. Transporter's Phone 941-533-4599

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

LAIDLAW ENVIRONMENTAL SERVICES
170 BARTOW MUNIC AIRPORT
BARTOW, FL 33830

10. US EPA ID Number

F L D 9 8 0 7 2 9 6 1 0

G. State Facility's ID

H. Facility's Phone

813-533-6111

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

HM

12. Containers

No.

Type

13.
Total
Quantity14.
Unit
Wt/Vol

Waste No.

a. X RQ, WASTE ACETONE
3, UN1090, PG II, (RQ=100), (EPA F003 D001),
(ERG 127)

0 0 1

D M

55

G

F003 D001

b.

c.

d.

J. Additional Descriptions for Materials Listed Above

1503-DI ACETONE

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PROTECTIVE GEAR WHEN HANDLING.

EMERGENCY CONTACT: CHEMTREC: 1-800-424-9300. CALLER MUST IDENTIFY VAN WATERS &
ROGERS AS SHIPPER.16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified,
packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically
practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health
and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is
available to me and that I can afford.

Printed/Typed Name

Jason Freeman

Signature

Jason Freeman

Month Day Year

10 4 0 3 9 8

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

DONALD C. Dyr

Signature

Donald C Dyr

Month Day Year

10 4 0 3 9 8

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Emergency Contact Telephone Number

UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

F L D 9 8 2 1 6 2 2 6 5 9 8 0 0 3

Manifest
Document No.2. Page 1
of 1Information in the shaded areas is
not required by Federal law.

3. Generator's Name and Mailing Address

GOLD COAST MARBLE INC
3413 SW 14TH ST
DEERFIEL BCH, FL 33442

4. Generator's Phone (

954

481-8648

EMERGENCY CONTACT: BOX 15

5. Transporter 1 Company Name

FREEHOLD CARTAGE

6. US EPA ID Number

N I D 0 5 4 1 2 6 1 6 4

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

LAIDLAW ENVIRONMENTAL SERVICES
170 BARTOW MUNIC AIRPORT
BARTOW, FL 33830

10. US EPA ID Number

F L D 9 8 0 7 2 9 6 1 0

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

HM

a. X RQ, WASTE ACETONE
3, UN1090, PG II, (RQ=100), (EPA F003 D001),
(ERG 127)

12. Containers

No.

Type

13. Total
Quantity14. Unit
Wt/Vol

15. Waste No.

D M

F003 D001

J. Additional Descriptions for Materials Listed Above

11a. 1503-DI ACETONE

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PROTECTIVE GEAR WHEN HANDLING.

EMERGENCY CONTACT: CHEMTREC: 1-800-424-9300. CALLER MUST IDENTIFY VAN WATERS &
ROGERS AS SHIPPER.16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified,
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and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is
available to me and that I can afford.

Printed/Typed Name

Signature

Month Day Year

04 07 98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

04 07 98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 07 98

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

04 07 98

T/S/D/F

7-BLE-VB (Rev 9/94)

Emergency Contact Telephone Number

UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

F.T.D. 09-9348625

Manifest
Document No.

69801

2. Page 1
of 1Information in the shaded areas is
not required by Federal law.

3. Generator's Name and Mailing Address

HYDRO ALUMINUM BOHN
100 GUS HIPPI BLVD
ROCKLEDGE, FL 32955

4. Generator's Phone (

407

636-8147

EMERGENCY CONTACT: ROY 15

5. Transporter 1 Company Name

VAN WATERS & ROGERS INC

7. Transporter 2 Company Name

Frophold Carriage Inc.

9. Designated Facility Name and Site Address

LAIDLAW ENVIRONMENTAL SERVICES
170 BARTOW MUNIC AIRPORT
BARTOW, FL 33830

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

HM

a. X RQ, WASTE TRICHLOROETHYLENE MIXTURE
6.1, UN1710, PG III, (RQ=100), (EPA F001 D040
F002), (ERG 160)

b.

c.

d.

J. Additional Descriptions for Materials Listed Above

11a. UN1879 DI 6.1 PG III KEEP AWAY FROM FOODS

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PROTECTIVE GEAR WHEN HANDLING.
EMERGENCY CONTACT: CHEMTREC: 1-800-424-9300. CALLER MUST IDENTIFY VAN WATERS &
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and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is
available to me and that I can afford.

Printed/Typed Name

Harry F. Bargelski, Jr.

Signature

Harry F. Bargelski

Month Day Year

10 30 7 1988

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Robert Powell

Signature

Robert Powell

Month Day Year

10 30 7 1988

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Month Day Year



Van Waters & Rogers Inc.

A ROYAL PAKHOED COMPANY

DENNIS THORNTON
SOUTHERN REGION REGULATORY MANAGER

2750 SOUTHPORT ROAD
SPARTANBURG, SC 29302

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ORDER: (800) 366-1823
FAX: (864) 580-2134
VOICE MAIL: (800) 284-6264
EXT 9808

WWW.VWR-NA.COM
EMAIL: DENNIS.THORNTON@VWR-INC.COM



Van Waters & Rogers Inc.

A ROYAL PAKHOED COMPANY

ANDRE CARNEGIE
OPERATIONS MANAGER

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FAX: (813) 671-2920
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