



DRUM RETURN & RECYCLING

A custom service offered by
CH₂O, Incorporated!

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The Problems of Empty Drums

- Bulky in the trash.



- Most domestic waste facilities won't accept drums.



- Sit around, accumulate, and take up space.



- Unsightly.

- Expensive to send to recycler.



- Expensive to dispose of.

CH₂O, Inc.'s Answer!

To help our customers with their empty drum problems, CH₂O, Inc. has developed a process to get empty drums back to CH₂O, Inc. for proper cleaning, reconditioning, and reuse!

We call this our **Drum Return and Recycling Program**.

Customers are able to return properly prepared empty drums to CH₂O, Inc. at no charge, as long as a few basic steps are followed.

Since the minimum transportation fee for one drum is about \$75 via common carrier, this special program we offer can add up to substantial savings for our customers!

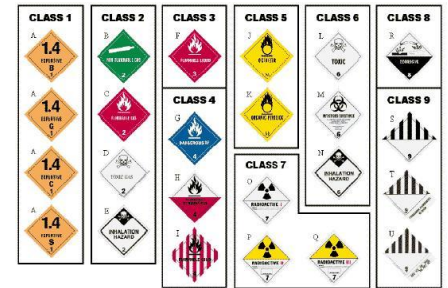
What is Required?

- ✓ The chemical product has been completely removed from the container. *(The following drum/tote sizes are returnable: 15G, 30G, 55G, 275G, 330G)*
- ✓ The drum is empty, as defined in 40 CFR Part 261.7. *(NOTE: Refer to the photos for an example of the maximum allowable residual in an empty drum.)*
- ✓ The empty drum previously contained CH₂O, Inc. product, has not been contaminated with any other material, and is in good repair.
- ✓ Both bungs are tightly secured into the drum.



What is Required...cont.

- ✓ DOT hazard labels (*4x4" Corrosive, Oxidizer, Flammable, etc.*) should be removed from the drum; leave product label on the drum.
- ✓ CH₂O, Inc. is notified that drums are ready to be recycled when customer places an order (*email or phone*).
- ✓ Properly prepared drums are staged near the receiving area for pickup when dropping off chemical product.



What is a Properly Prepared Drum?

MAXIMUM WASH ON SITE RESIDUE EXAMPLES



15 GALLON DRUM



30 GALLON DRUM



55 GALLON DRUM

ALL DRUMS SHOWN CONTAINING 8 OUNCES OF FLUID

After physical testing, we have determined that a drum is empty in accordance with 40 CFR Part 261.7 if it contains no more residual (liquid/solid) than shown in the photos to the left.

What is a Properly Prepared Drum?

Both bungs are tightly secured into the drum.



The lid is securely on the tote AND the bottom discharge valve is fully closed and not leaking



What is a Properly Prepared Drum?



Remove
ONLY the
DOT
hazard
label!

DOT hazard “labels” are always 4” x 4”, and are on hazmat drums indicating the pertinent DOT hazards. Leave the product label, but remove the 4”x4” DOT HAZARD LABEL.

We use the following DOT hazard labels:

Corrosive (class 8),
Flammable (class 3),
Oxidizer (class 5.1),
Organic Peroxide (class 5.2), and
Toxic (class 6)

Place a Chemical Order...

After the empty drums have been properly prepared by the customer, let the Order Entry staff know there are empty drums to return when placing your next chemical order.

ALLES ORDER & UNIFORM STRAIGHT BILL OF LADING—SHORT FORM—ORIGINAL—NOT NEGOTIABLE

FORMER CH20 Page 1 of 1 DATE 3/23/86 **PRODUCT MUST BE STORED ABOVE 45°F**

CEIVED, subject to the classifications and tariffs effective on this Bill of Lading issue date.

CM **CH2O**
8820 OLD HIGHWAY 99 SE OLYMPIA, WA 98501
Olympia (360) 945-6083

**IN CASE OF EMERGENCY CALL CHEMTREC
1-800-424-9300 or 703-527-3887**

65A-BDL HMCC
DEPT OF LOGISTICS
BUILDING 9669
FORT LEWIS, WA 98433-9588

Properly classified below in agreement and/or as noted contents and condition of contents of packages (inherent, marked, consigned, and delivered as indicated below, which said carrier (the word carrier being understood throughout contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination, including agreed, as to each carrier of full or part of said property over all or any portion of said route to destination, and as to each party at any time indicated in all or any part of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading and Form (1) to Uniform Freight Classification in effect on the date hereof, if this is a bill of lading or a bill of lading, or (2) in the applicable motor carrier classification and this is a motor carrier shipment. Other terms and conditions shall be those set forth in the bill of lading, including those on the back hereof, and both in the classification or tariff which govern the transportation as shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for receipt and his usage.

CONSIGNEE TO: 65A-BDL HMCC
DPA TOILER PLANT
BUILDING 3292
FORT LEWIS, WA 98433-9588

OUR ORDER NO: 71132
CUSTOMER NO: DOLHMCCDEPTOFLD
CUSTOMER PO NO: 68920584
SALES REP: 816
SHIP LOC: OLY
OPER ID: Patricia

NOTE: WHERE THE RATE IS DEPENDENT ON VALUE, SHIPPERS ARE REQUIRED TO STATE SPECIFICALLY IN WRITING THE AMOUNT OF INSURANCE VALUE OF THE PROPERTY TO BE SHIPPED OR TO BE RECEIVED. IF THE PROPERTY IS SHIPPED ORIGINALLY COVERED BY THE SHIPPER NOT TO EXCEEDING \$100,000 DOLLARS AND SHIPPER COVERS HIS PROPERTY FOR EXCESS THEREOF, THE AMOUNT OF INSURANCE VALUE OF THE PROPERTY IS HEREBY SPECIFICALLY STATED BY THE SHIPPER SET TO BE EXCESSIVE.

SUBJECT TO RECEIPT AND COMPLETION OF APPLICABLE BILL OF LADING, THIS SHIPMENT IS TO BE DELIVERED TO THE CONSIGNEE WITHOUT RECEIPT OR TO THE CARRIER, THE CONSIGNEE SHALL SIGN THE FOLLOWING STATEMENT THE CARRIER SHALL NOT BE HELD LIABLE FOR THIS SHIPMENT WITHOUT PRESENT OF RECEIPT AND ALL OTHER SHIPPER OBLIGATIONS.

PROPER SHIPPING NAME & HAZARD CLASS	WEIGHT	QTY SHIPPED	QTY ORDERED	PRODUCT CODE	PRODUCT DESCRIPTION & SIZE	OC
FLAMMABLE LIQUIDS, CORROSIVE, AND (CYCLOHEXYLAMINE & MORPHOLINE), 3 (B), UN 2224, III (ERG0132)	261	1	1	RC382NSBP	6382 265 LB	35
Total Weight: 261 LB		245	245	BULK DELIVERY	BULK DELIVERY	

*** ALL QUERIES CALL CARL THOMPSON 253-2742-3222
PLEASE SEND ON BULK TRUCK & PUMP IN. RECORD LOT# 6.
65A-BDLHMCC 8-253-966-0454

WE CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, SECORDED, PACKAGED, MARKED & LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

FLAGCARDS ORDERED: _____
FLAGCARDS REUSED: _____
NO. OF FLAGCARDS PROVIDED OR AFFIXED: _____

IF CHARGES ARE TO BE PREPAID, PRINT OR STAMP HERE TO BE PREPAID: PFD

CHARGES ADVANCED \$ _____

G.O.D. AMOUNT \$ 0.00

CONSIGNEE SIGNATURE _____

PRINT NAME _____

TE SHIPPED: _____ SHIPPER PER: _____ AGENT PER: _____

DATE: Permanent post office address of shipper

ORIGINAL

4/5/2017

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Is a Bill of Lading Really Necessary?

- YES, a bill of lading must accompany the return shipment of empty drums. This is not a choice, but a federal requirement of proper shipping.
- An easy-to-use bill of lading form can be printed from CH2O, Inc.'s web site for your use. (www.ch2o.com: Customer Service → Drum Recycling)
- The bill of lading can be modified with customer-specific products to make it easier to use; contact the Technical Services Manager for this service.



BILL OF LADING - Dead Head

RECEIVED FROM (company):		DATE:	
CONTACT:		PHONE:	
CARRIER:			
CONSIGNEE TO: CH ₂ O, Inc. / 8820 Old Hwy. 99 SE / Tumwater, WA 98501, Phone: 800-562-6184			

24 HOUR EMERGENCY PHONE: 1-800-424-9300 CHEMTREC: CNN4324

#	DESCRIPTION:	QTY	WT (lbs)
0	Misc. box, crate, or drum		
1	EMPTY, LAST CONTAINED: UN 1719, CAUSTIC ALKALI LIQUIDS, NOS, (POTASSIUM HYDROXIDE, SODIUM HYPOCHLORITE), 8, II		
2	EMPTY, LAST CONTAINED: UN 1719, CAUSTIC ALKALI LIQUIDS, NOS, (POTASSIUM N-METHYLDITHIOCARBAMATE, DISODIUM CYANODITHIOIMIDOCARBONATE), 8, III		
3	EMPTY, LAST CONTAINED: UN 1760, CORROSIVE LIQUID, NOS, (MONOCARBAMIDE DIHYDROGENSULFATE), 8, III		
4	EMPTY, LAST CONTAINED: UN 1789, HYDROCHLORIC ACID SOLUTION, 8, II		
5	EMPTY, LAST CONTAINED: UN 1791, HYPOCHLORITE SOLUTION, 8, III		
6	EMPTY, LAST CONTAINED: UN 1814, POTASSIUM HYDROXIDE SOLUTION, 8, II		
7	EMPTY, LAST CONTAINED: UN 1824, SODIUM HYDROXIDE SOLUTION, 8, II		
8	EMPTY, LAST CONTAINED: UN 1908, CHLORITE SOLUTION, 8, II		
9	EMPTY, LAST CONTAINED: UN 1987, ALCOHOLS, NOS, (ETHANOL, ISOPROPANOL), 3, II		
10	EMPTY, LAST CONTAINED: UN 1993, FLAMMABLE LIQUIDS, NOS, (ETHANOL), 3, II		
11	EMPTY, LAST CONTAINED: UN 2672, AMMONIA SOLUTION, 8, III		
12	EMPTY, LAST CONTAINED: UN 2693, BISULFITES, AQUEOUS SOLUTIONS, NOS, (SODIUM BISULFITE), 8, III		
13	EMPTY, LAST CONTAINED: UN 2796, SULFURIC ACID, 8, II		
14	EMPTY, LAST CONTAINED: UN 2922, CORROSIVE LIQUID, TOXIC, NOS, (2-(THIOCYANO-METHYLTHIO)BENZOTHAZOLE & METHYLENE BIS(THIOCYANATE)), 8 (6), III		
15	EMPTY, LAST CONTAINED: UN 2924, FLAMMABLE LIQUIDS, CORROSIVE, NOS, (CYCLOHEXYLAMINE & DIETHYLAMINOETHANOL), 3 (8), III		
16	EMPTY, LAST CONTAINED: UN 2924, FLAMMABLE LIQUIDS, CORROSIVE, NOS, (CYCLOHEXYLAMINE & MORPHOLINE), 3 (8), III		
17	EMPTY, LAST CONTAINED: UN 2924, FLAMMABLE LIQUIDS, CORROSIVE, NOS, (MORPHOLINE & DIETHYLETHANOLAMINE), 3 (8), III		
18	EMPTY, LAST CONTAINED: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, NOS, (SODIUM NITRITE), 9, III		
19	EMPTY, LAST CONTAINED: UN 3109, ORGANIC PEROXIDE TYPE F, LIQUID, (PEROXYACETIC ACID), 5.2 (8), II		
20	EMPTY, LAST CONTAINED: UN 3149, HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURES, STABILIZED, 5.1 (8), II		
21	EMPTY, LAST CONTAINED: UN 3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, NOS, (ALUMINUM SULFATE SOLUTION), 8, III		

NOTE: The customer owns the empty drum, and is responsible for that drum until it is accepted by CH₂O, Inc. at the corporate office!

Return Option #1



COMMON CARRIER: Oak Harbor

- We have an agreement with Oak Harbor, for now, where they will pick up and return properly prepared empty drums when they are at a facility delivering product.
- Oak Harbor does NOT charge us for this service as long as we are able to make the return process flow smoothly for them.
- Oak Harbor is under no obligation to continue this service at no charge; it is possible that we may lose this free opportunity at any time.
 - It is a minimum cost of \$75 to return an empty drum to CH₂O, Inc. via common carrier!

Delivery-Leave-Return

When the Oak Harbor drivers delivers an order of product early in the day, he may not pick up the empty drums at that time due to space limitations (*full load of freight to be delivered*).



However, the driver will most often return to the facility later in the day to pick up the empty drums. He will occasionally return the next day or so, if he is on a tight schedule.

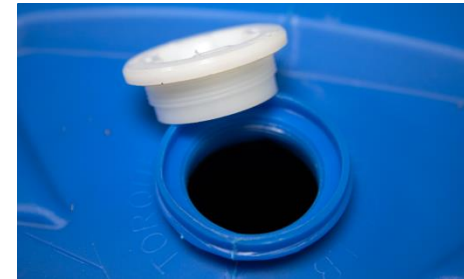
Return Option #2



- CH₂O, Inc. trucks are capable of picking up and returning empty drums from a customer when they are making a delivery.
- We must prepare empty return drums the same for our CH₂O, Inc. trucks.
- Our drivers are trained in the proper preparation of empty drums for return; although they can't prepare empty drums for the customer, they can offer guidance to sales staff or customers as applicable on what must be done if the empty drums are not properly prepared for return.

Why Were My Drums NOT Picked Up?

If the empty drums are not picked up by Oak Harbor within a day or two of the original order delivery, contact the Plant Foreman to investigate the situation.



Drums must be clean, in good repair, with bungs in place

It is possible that the drums have been refused for pickup due to improper preparation, in which case, the sales personnel will be notified of what must be done to prepare the drums for return.

Why Returned Containers Are Rejected

- Each empty container that is returned to CH₂O, Inc. for recycling is checked to ensure it is empty.
- The container is visually examined, and if there is any residual the container is weighed.
- If the container weighs more than allowed, it is not empty (*i.e. it has not been properly prepared for return*) and can NOT be accepted at the corporate office.



What Happens When Containers Are Rejected?

- When a container has been inspected and is over the allowable weight, we will indicate “shipment rejected” on the return bill of lading and the shipment will be returned to the customer.
- When/if a container is rejected, the Plant Foreman will immediately contact the pertinent sales staff and let them know they have rejected a container and why.



NOTE: The customer owns the empty drum, and is responsible for that drum until it is accepted by CH₂O, Inc. at the corporate office!

Return of Rejected Drums

It is a tricky situation when a container has been rejected and must be returned to the customer.



Although the container shipped to CH₂O, Inc. for free, there is a freight charge associated with the return of the container to the customer. The customer is responsible for this return freight charge.

Customer Training



- Training on this Drum Return and Recycle Program is integral to its success.
 - CH₂O, Inc. will review the Drum Return and Recycling Program with sales staff annually.
 - CH₂O, Inc. sales staff will need to train their customers frequently to ensure they understand the program.
 - This Power Point presentation on the Drum Return and Recycling Program is used to help train customers.
- CH₂O, Inc. will make a customer-specific Bill of Lading for use, if requested through the Technical Services Manager.



Questions?



If there are any questions, you can contact
the Technical Service Manager or the
Technical Director at the corporate office.