

PM-20

0985-1

P. 1/3

APR 7 1987

FB&S Chemical Company
Highway 136 West, Route 2
P.O. Box 20
Henderson, KY 42420

Attention: T.M. Maple
Corporate Fleet Manager

Gentlemen:

Subject: 150 lb Gas Tags and 2000 lb Container
Instructions for Compressed Chlorine Gas
EPA Registration No. 6785-1
Your Submission Dated June 30, 1986

The draft labeling submitted for the above-referenced product in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable since you have indicated in your letter that the word POISON, Skull and Crossbones, and DANGER will appear in red color on the final printed label.

The following additional labeling change should be incorporated in the final printed labeling.

- o Delete the words "GENERAL CLASSIFICATION" beneath the heading Directions for Use. This statement is no longer required on labeling.

Submit the final printed labeling for inclusion in the product file.

The Confidential Statement of Formula submitted with your letter has been placed in the file for this product.

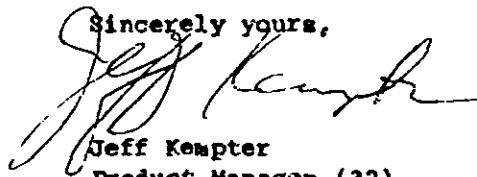
91511: Douglas:K-3:KENCO:4/1/87:4/11/87:TAR:VO:EK:NeeCee

CONCURRENCES

SYMBOL	ORIGINATOR							
SURNAME								
DATE								

A stamped copy of the labeling for the 150 pound gas container and the instructions for the 2000 pound capacity containers are enclosed for your records.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Jeff Kempter".

Jeff Kempter
Product Manager (32)
Disinfectants Branch
Registration Division (TS-767C)

Enclosure

11/5

ACCEPTED

UN 1017

with COMMENTS
in EPA Letter 0181

Serial No.

Tare Wt.

Net Wt.

APR 07 1987

CHLORINE (RQ) Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended and registered for the pesticide for EPA Reg. No. **CHLORINE**
LIQUIFIED GAS
UNDER PRESSURE
NON FLAMMABLE 6785-1 **DIRECTIONS FOR USE**

FOR USE AS A DISINFECTANT, ALGAEICIDE AND SLIMICIDE by experienced and trained personnel only. For disinfecting municipal water supplies, treatment of sewage and waste in sewage treatment plants. For use as a slimicide in treating recirculating cooling water in industrial cooling systems and in paper mills, and for use in commercial swimming pools and other industrial applications.

ACTIVE INGREDIENT:
 CHLORINE*99.5%
INERT INGREDIENTS:0.5%

KEEP OUT OF REACH OF CHILDREN



FATAL IF INHALED
LIQUID CAUSES SEVERE BURNS

STATEMENT OF PRACTICAL TREATMENT

FIRST AID: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, preferably with a physician's advice. Keep warm by covering with a blanket and keep quiet.

In case of skin or eye contact, immediately flush all affected areas with large amounts of running water for at least 15 minutes while removing contaminated clothing and shoes. For eyes, hold eyelids apart during the flushing to ensure rinsing of the entire surfaces of the eye and lids with water. Call a physician immediately.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
DANGER

Fatal if inhaled. Do not breathe vapor. Corrosive to eyes, skin, and mucous membranes in the presence of moisture. Do not get in eyes, on skin or on clothing. Wear goggles, protective clothing and rubber gloves when handling. Do not heat containers.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds or public waters, unless in accordance with an NPDES permit. For guidance contact the regional office of the Environmental Protection Agency.

CHEMICAL-PHYSICAL HAZARDS: Chlorine is a non-flammable gas, liquified under pressure. Do not drop container. Keep away from intense heat or open sunlight. Corrosive to most metals in the presence of moisture.

Repackaged By
P.B. & S. CHEMICAL COMPANY
 HENDERSON, KENTUCKY 42420

*Meets AWWA B301-81

~~Delete~~ **GENERAL CLASSIFICATION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Only specifically designed dispensing equipment should be used in accordance with manufacturer's instructions and according to state regulatory agency recommendations for dosages or residual chlorine levels which should be maintained for each specific site of application.

Have available gas masks approved for chlorine service by the U.S. Bureau of Mines or the National Institute for Occupational Safety and Health. Handle and use only in accordance with practice recommended in the **CHLORINE MANUAL** published by the Chlorine Institute Inc., New York. Use only in well ventilated areas.

STORAGE & DISPOSAL

STORAGE: Cylinders and ton containers of chlorine should be stored in a dry area away from sources of heat and protected from direct sunlight and precipitation. They should be segregated from other compressed gases and never stored near hydrocarbons, finely divided metals, turpentine, ether, anhydrous ammonia, or other flammable materials. All storage containers must have a weather resistant label attached near the outlet valve and must not be accessible to general public.

DISPOSAL OF CONTAINER: All chlorine containers are returnable and should be properly identified with return tags and returned as promptly as possible to supplier according to prescribed instructions and practices recommended by the Chlorine Institute. All valves must be closed tight and closures or caps secured. It is illegal to ship a leaking chlorine container.

Return empty container with valve protection hood securely in place.

PB&S CHEMICAL COMPANY
 HENDERSON, KENTUCKY 42420
 PHONE 502-827-3545

EPA Reg. No. 6785-1 EPA EST. No. 6785-KY-1

NET WT. 150 LBS.

Front

Back

GENERAL INSTRUCTIONS

Only qualified personnel knowledgeable in chlorine safe handling should use this product.

Connection of cylinder discharging liquid to a manifold is not recommended. NEVER CONNECT TO A GAS MANIFOLD A NEW CYLINDER THAT IS NOT THE SAME TEMPERATURE AS OTHER CYLINDERS CONNECTED TO THE SYSTEM.

Use chlorine cylinders in order received. Weigh cylinder on a platform scale when unloading.

NEVER HEAT CHLORINE CYLINDERS OR VALVES. DO NOT PLACE THEM IN A HOT WATER BATH TO INCREASE DISCHARGE RATES.

Be sure no water or other liquid is sucked back into cylinder due to pressure differences, especially when it is nearly empty. NEVER LEAVE CYLINDER VALVES OPEN WHEN CHLORINE IS NOT BEING USED.

Use only valves, gauges, regulators, fittings, pipings, etc., recommended for chlorine service.

Notify the chlorine supplier promptly of damaged cylinders. NEVER TAMPER WITH FUSIBLE PLUGS OR ATTEMPT TO ALTER OR REPAIR CYLINDERS OR VALVES.

**USING CHLORINE IN CYLINDERS
(See Diagrams 1-4)
CONNECTING AND DISCONNECTING**

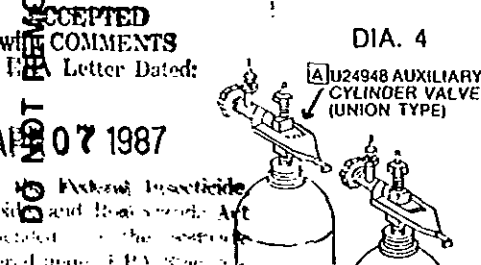
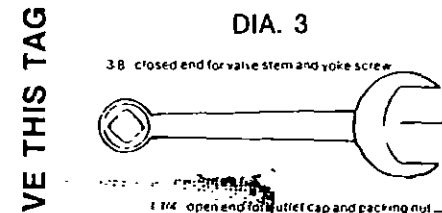
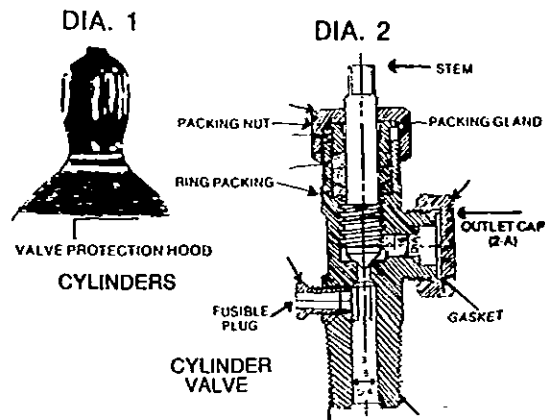
Use 500 psig copper tubing fitted with special adapter (4-A) to connect cylinder to piping system. To connect line to cylinder, remove valve protection hood (1) and valve outlet to cap (2-A). Then use wrench (3) shown to attach tubing to valve with yoke. Use new gasket supplied with cylinder each time connection is made. Make sure connections are tight. Close auxiliary valve, open cylinder valve one-half turn counter clockwise, close cylinder valve, test for leaks with ammonia vapor. Appearance of white vapor indicates a chlorine leak. If a leak is found, tighten yoke and retest. If leak persists, remove gasket and replace with a new gasket. Retest using the above procedure. If no leaks are detected, open auxiliary valve one turn and cylinder valve one-half turn.

(continued on reverse;
diagrams on reverse)

Front

Don't use cylinder valve (2) to regulate the chlorine flow. Use of valve for flow-control may wear valve seat so that it cannot be tightly closed. NEVER FORCE THE VALVE STEM. Hit wrench handle with the heel of the hand to loosen a stuck valve stem. NEVER USE A HAMMER OR OTHER IMPLEMENTS FOR THIS PURPOSE. Packing nut may be loosened slightly to relieve tight stem, but retighten promptly to avoid leak.

To disconnect, close valve (2), disconnect tubing, yoke, test valve for leaks, apply valve outlet cap (2-A) with gasket. Replace valve protection hood (1) on cylinder. Plug or cap the open end of the chlorine line immediately to keep out the moisture.



DO NOT REMOVE THIS TAG

DO NOT REMOVE THIS TAG

ACCEPTED
WITH COMMENTS
Letter Dated:
APR 07 1987

6785-1

IN CASE OF EMERGENCY

In the event of a spill or emergency, safety of life is of primary importance. Immediate evacuation of personnel from the area is a must. An emergency contingency plan is recommended. If you need assistance, call your supplier or Chemtrec (1-800-424-9300).

Back

GENERAL INSTRUCTIONS

Only qualified personnel knowledgeable in chlorine safe handling should use this product.

Ton chlorine containers have two valves in one head: in the horizontal position, with valves in a vertical line, they will deliver gas from the upper valve and liquid from the lower valve.

Connection of containers discharging liquid to a manifold is not recommended. NEVER CONNECT TO A GAS MANIFOLD A NEW CONTAINER THAT IS NOT THE SAME TEMPERATURE AS OTHER CONTAINERS CONNECTED TO THE SYSTEM.

Use chlorine containers in order received. Weigh container on a platform scale when unloading.

NEVER HEAT CHLORINE CONTAINERS OR VALVES, DO NOT PLACE THEM IN A HOT WATER BATH TO INCREASE DISCHARGE RATES.

Be sure no water or other liquid is sucked back into container due to pressure differences, especially when it is nearly empty. NEVER LEAVE CONTAINER VALVES OPEN WHEN CHLORINE IS NOT BEING USED.

Use only valves, gauges, regulators, fittings, pipings, etc., recommended for chlorine service.

Notify the chlorine supplier promptly of damaged containers. NEVER TAMPER WITH FUSIBLE PLUGS OR ATTEMPT TO ALTER OR REPAIR CONTAINERS OR VALVES.

USING CHLORINE IN CONTAINERS (See Diagrams 1-4) CONNECTING AND DISCONNECTING

Use 500 psig copper tubing fitted with special adapter (4-A) to connect container to piping system. To connect line to container, remove valve protection hood (1) and valve outlet to cap (2-A). Then use wrench (3) shown to attach tubing to valve with yoke (4-B). Use new gasket supplied with container each time connection is made. Make sure connections are tight. Close auxiliary valve, open container valve one-half turn counterclockwise, close container valve, test for leaks with ammonia vapor. Appearance of white vapor indicates a chlorine leak. If a leak is found, tighten yoke and retest. If leak persists, remove gasket and replace with a new gasket. Retest using the above procedure. If no leaks are detected, open auxiliary valve one turn and container valve one-half turn.

(continued on reverse;
diagrams on reverse)

GENERAL INSTRUCTIONS

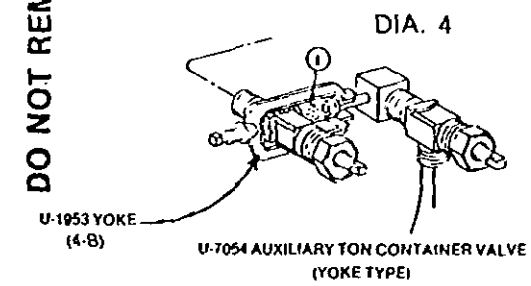
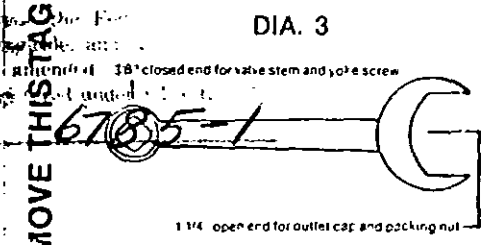
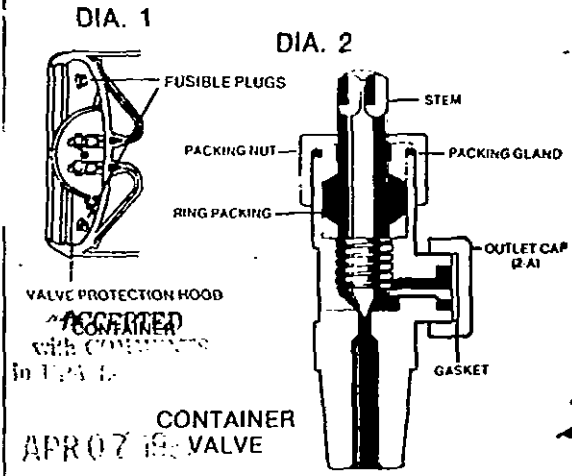
FOR 2000 LB.

CONTAINERS

*HITTING TO FIRST
2 PARTS & CHANGE
W/4/8/5*

Don't use container valve (2) to regulate the chlorine flow. Use of valve for flow-control may wear valve seat so that it cannot be tightly closed. NEVER FORCE THE VALVE STEM. Hit wrench handle with the heel of the hand to loosen a stuck valve stem. NEVER USE A HAMMER OR OTHER IMPLEMENTS FOR THIS PURPOSE. Packing nut may be loosened slightly to relieve tight stem, but retighten promptly to avoid leak.

To disconnect, close valve (2), disconnect tubing, yoke and adapter (4-A & 4-B), test valve for leaks, apply valve outlet cap (2-A) with gasket. Replace valve protection hood (1) on container. Plug or cap the open end of the chlorine line immediately to keep out the moisture.



DO NOT REMOVE THIS TAG

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IN CASE OF EMERGENCY

In the event of a spill or emergency, safety of life is of primary importance. Immediate evacuation of personnel from the area is a must. An emergency contingency plan is recommended. If you need assistance, call your supplier or Chemtrec (1-800-424-9300).