



CHLORINE

DOT Shipping Description: RQ Chlorine, 2.3, UN 1017, Poison Inhalation Hazard, Hazard Zone B



INHALATION HAZARD 2



CORROSIVE

CHLORINE LIQUEFIED GAS UNDER PRESSURE NON FLAMMABLE

FOR USE AS A DISINFECTANT AND ALGAEICIDE, by experienced personnel only, in municipal water supplies, sewage and waste management plants, industrial applications, and commercial swimming pools.

ACTIVE INGREDIENT: CHLORINE 99.5%
 INERT INGREDIENTS: 0.5%

KEEP OUT OF REACH OF CHILDREN

DANGER  **POISON**

FATAL IF INHALED. LIQUID CAUSES SEVERE BURNS

FIRST AID: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. If On Skin Or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment. If In Eyes: Hold eye open, rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If Swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. For Emergency Assistance call CHEMTREC day or night at (800) 424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Fatal if inhaled or absorbed through skin. Corrosive. Causes irreversible eye damage and skin burns. Do not breathe vapors or get in eyes, on skin or clothing. Wear goggles, protective clothing and rubber gloves. Wash hands thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

Handlers must wear long-sleeved shirts, long pants, shoes and socks. In Case of Spill or Leakage: Under normal use/conditions, no protective eyewear, respirator, or gloves are required. However, in case of a spill or leak, handlers must wear chemical-resistant gloves (such as nitrile or butyl) and a full-face canister-style (gas mask) respirator with a canister approved for chlorine (MSHA/NIOSH approval number prefix TC-14G) or a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F). Since there is always the possibility of a spill or leak, gloves and a respirator of a type specified above must be available and are required for anyone entering into an affected area in the event of a leak or spill.

ENVIRONMENTAL HAZARDS

This pesticide is toxic or highly toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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

EPA REG. NO. 550-200
EPA EST. NO.

SERIAL NO.:
TARE:
NET:

PACKAGED IN:

DIRECTIONS FOR USE

GENERAL CLASSIFICATION
It is a violation of federal law to use this product in a manner inconsistent with its labeling. Refer to the Chlorine Manual published by the Chlorine Institute for instructions on the required product use and safety procedures. Before working with this product, handlers must be trained how to appropriately use respirators that conform to OSHA requirements (described in 29 CFR Part 1910.134) and how to appropriately handle and use chlorine. This product including dispensing equipment, must be handled and used in accordance with the practices by all applicable product labeling and the Chlorine Manual published by the Chlorine Institute. Use only in well ventilated areas.

STORAGE AND DISPOSAL

Store cylinders and ton containers in a dry area away from sources of heat and protected from direct sunlight and precipitation. Do not store in excessive heat. Segregate chlorine containers from other compressed gases, and never store near hydrocarbons, finely divided metals, turpentine, ether, anhydrous ammonia, or other flammable materials. All storage containers and cylinders must have a weather resistant label and must not be accessible to the general public. Do not drop container. If container is damaged or leaking, refer to procedures in the Chlorine Manual published by the Chlorine Institute and/or notify supplier immediately. Do not cor.amina.e water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.

LEAK PROCEDURES

Leak Procedures: Make a daily inspection for leaks. Stop a leak at once, since it will become worse with time. In case of a leak, evacuate everyone from the immediate area. For entry into the affected area to correct problem, wear personal protective equipment (including prescribed respirators) specified in the Hazards to Humans section of this labeling. When possible, move leaking or damaged cylinders outdoors or to an isolated location. Observe strict safety precautions. Work upwind, if possible. Allow any liquid chlorine to evaporate. Only correctly trained and Personal Protective Equipment (PPE) - equipped handlers are permitted to perform such cleanups. Do not permit entry into the leak area by any other person until chlorine has completely dispersed.

DISPOSAL OF CONTAINER:

Container is returnable and must be properly identified with return tag and returned as promptly as possible to supplier according to prescribed instructions and practices in the Chlorine Manual published by the Chlorine Institute. All valves must be closed tight and closures or caps secured. It is illegal to ship a leaking chlorine container.

UNIVAR USA, INC.
6100 Carillon Point
Kirkland, WA 98033
(425) 889-3400

CHLGYL (4/02)

ACCEPTED

NOV 27 2002

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 550-200

2/2

DO NOT REMOVE THIS TAG

CHLORINE

DOT Shipping Description: RQ Chlorine, 2.3, UN 1017, Poison Inhalation Hazard, Hazard Zone B

GENERAL INSTRUCTIONS

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 IN 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, gages, regulators, fittings, piping, 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.

**IN CASE OF EMERGENCY
CALL CHEMTREC DAY OR NIGHT
1-800-424-9300**

USING CHLORINE IN CONTAINERS (See Diagrams 1-4)

CONNECTING AND DISCONNECTING

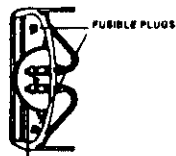
Use 500 Psig Copper Tubing Fitted With Special Adapter (4-A for Cylinder, 4-B for Ton Container) to connect container to piping system. To connect line to container, remove valve protection hood (1). Check to ensure cylinder valve is closed; valve closes clockwise. Adjust packing nut to 1/4 to 1/2 turn past hand tight. Note: The packing nut is tightened by turning it clockwise. Remove valve outlet cap (2-A). Then use wrench (3) shown to attach tubing to valve with yoke. Use new gasket supplied with container each time connection is made. Make sure connections are tight. Close auxiliary valve, open cylinder valve one-half turn counterclockwise and then close immediately. Test for leaks with ammonia vapor. Appearance of white vapor indicates a chlorine leak. If a leak is indicative, 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 turn.

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 cylinder valve (2) CLOSE AUXILIARY VALVE, DISCONNECT TUBING AND YOKE. Test for leaks. Apply valve outlet cap (2-A) with gasket and tighten. Replace valve protection hood (1) on container. Plug or cap the open end of the chlorine line immediately to keep out moisture.

TON CONTAINER

DIA.1



VALVE PROTECTION HOOD
CONTAINER

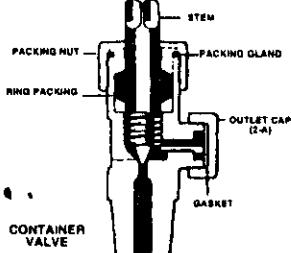
CYLINDER

DIA.1



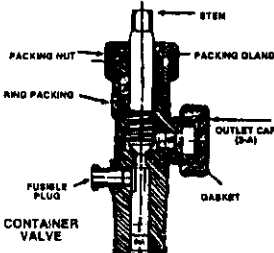
VALVE PROTECTION HOOD
CONTAINER

DIA.2

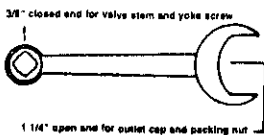


CONTAINER VALVE

DIA.2

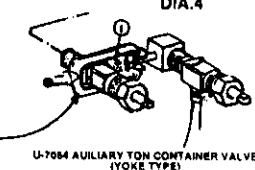


CONTAINER VALVE



1/4\"/>

DIA.4



U-1963 YOKE (4-B)

U-7054 AUXILIARY TON CONTAINER VALVE (YOKE TYPE)

DIA.4



U-2488 AUXILIARY CYLINDER VALVE (UNION TYPE)

INHALATION HAZARD 2

CORROSIVE

DO NOT REMOVE THIS TAG