

CHLORINE SG

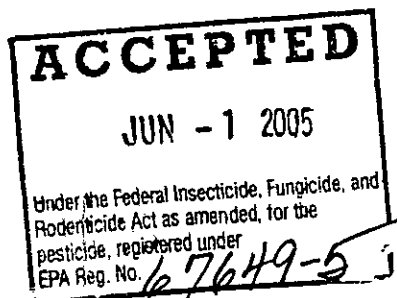
LABEL AND INSTRUCTIONS FOR CHLORINE SG

AS APPROVED
BY THE UNITED STATES GOVERNMENT
UNDER FIFRA
FOR ROWELL CHEMICAL CORP.

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER
INCONSISTENT WITH ITS LABELING.

For additional information please contact:

ROWELL CHEMICAL CORP.
10100 S. ARCHER AVE
WILLOW SPRINGS IL 60480
708-839-1707
EPA REG NO: 67649-5
EPA EST. NO 67649-IL-01



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CHLORINE SG

ACTIVE INGREDIENT (NOMINAL CONCENTRATION):	
CHLORINE	99.5%
OTHER INGREDIENTS	<u>0.5%</u>
TOTAL	100.0%

DANGER
KEEP OUT OF REACH OF CHILDREN

DANGER  **POISON**

INHALATION HAZARD

(Skull & Crossbones, red with white background.
Danger, Poison, Inhalation Hazard – Red font 12pt. Minimum)

FATAL IF INHALED
LIQUID CHLORINE CAUSES SEVERE BURNS

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • 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. • If breathing is difficult, oxygen should be administered by qualified personnel • Call a poison control center or doctor for treatment advice.
If on skin or clothing (Chlorine Liquid)	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin with plenty of water for at least 30 minutes. • Get medical attention immediately. • Wash clothing before reuse. • Destroy contaminated shoes. • Call a poison control center or doctor for treatment advice..
If on skin or clothing (Chlorine Gas)	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin with plenty of water for at least 30 minutes. • Get medical attention immediately. • Wash clothing before reuse. • Destroy contaminated shoes. • Call a poison control center or doctor for treatment advice..
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 – 20 minutes • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p>NOTE TO PHYSICIAN: Symptoms may become more severe up to 36 hours after exposure including pulmonary edema. Probable mucosal damage may contraindicate the use of gastric lavage..</p>	

PRECAUTIONARY STATEMENTS:**HAZARD TO HUMANS AND DOMESTIC ANIMALS**

DANGER: Fatal if inhaled or absorbed through the 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 as discussed below. 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 frequently repeated skin contact may cause allergic reactions in some individuals.

PHYSICAL AND CHEMICAL HAZARDS: Chlorine is a non-flammable gas stored and shipped as a liquefied gas under pressure. Do not drop or heat the container. Keep away from heat. Chlorine is corrosive to most metals in the presence of moisture.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. 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.

PERSONAL PROTECTIVE EQUIPMENT: Personal protective equipment requirements will vary depending on how the chlorine is being used. Refer to Chlorine Institute Pamphlet # 65 for specific recommendations. Applicators and other 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 leak, handlers must wear chemical-resistant gloves (such as any waterproof material) and a full-face canister-style (gas-mask) respirator with a canister approved for chlorine (MSHA/NIOSH approved number prefix TC-14G). Since there is always the possibility of a leak, gloves and a respirator of a type specified above must be available. Gloves and respirator are required for anyone entering into an affected area in the event of a leak.

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NET CONTENTS: 150 lbs. 2000 lbs.

STORAGE AND DISPOSAL

STORAGE: Store cylinders and ton containers in a dry area away from sources of heat and protected from intense sunlight. Do not store in excessive heat. Segregate chlorine containers from other compressed gases and never store near hydrocarbons, finely divided metals such as filings or granules, 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 and the appropriate Chlorine Emergency Kit Manual and/or notify supplier immediately.

LEAK PROCEDURES: Make daily inspections for leaks. Stop a leak at once since it will become worse with time. In case of leak, follow your site's Emergency Response Plan. It is illegal to ship a leaking chlorine container.

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 CI Pamphlet # 76 for cylinders and ton containers, CI Pamphlet # 49 for chlorine cargo tanks and CI Pamphlet # 66 for tank cars. All valves must be closed tight and closures or caps secured. It is illegal to ship a leaking chlorine container. Follow U.S. DOT regulations for returning empty containers, including proper installation of valve protective housing for all storage and shipments.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. Before working with this product, handlers must be trained how to appropriately handle and use chlorine. Use only in well ventilated areas.

Refer to the appropriate Chlorine Institute Pamphlet for instructions on the required product use and safety procedures. NEVER TAMPER WITH FUSIBLE PLUGS OR ATTEMPT TO ALTER OR REPAIR CYLINDERS, TONS OR VALVES. This product, including dispensing equipment, must be handled and used in accordance with the practices specified by all applicable product labeling and the appropriate Chlorine Institute Pamphlet. To contact the Chlorine Institute, call (703) 741-5760 or visit its website at www.CL2.com.

Chlorine Manual	CI Pamphlet #1
Piping Systems	CI Pamphlet #6
Chlorine Packaging Plants	CI Pamphlet #17
Cargo Tank Handling	CI Pamphlet #49
Emergency Response	CI Pamphlet #64
Personal Protective Equipment	CI Pamphlet #65
Railcar Handling	CI Pamphlet #66
Cylinders at Swimming Pools	CI Pamphlet #82
Swimming Pool Applicators	CI Pamphlet #97
Potable Water Treatment	CI Pamphlet #155
Wastewater Treatment	CI Pamphlet #155

Applications:

Only for formulation into an algaecide, slimicide, disinfectant or sanitizer and for the following uses(s):

- As a disinfectant in potable and wastewater treatment,
- As a disinfectant and algaecide in non-residential swimming pools,
- As a disinfectant and algaecide in pulp and paper process water systems, and
- For cooling tower water treatment,
- As a sanitizer for wash water treatment of food handling premises and equipment,
- For wash water for raw agricultural commodities and certain other food commodities,
- For repackaging into smaller containers, or
- For manufacture of sodium hypochlorite.

The registrant is solely responsible for the safety of the servicing equipment used with this pesticide, and for the repackaging of this gas from the larger containers into portable cylinders and ton containers. Each repackager must obtain its own EPA Registration Number for this pesticide for this use, and its own EPA Establishment Number from the EPA. Repackagers may only dispense this product to portable containers that are approved for chlorine and are appropriately labeled.

DOT Designation:

**COMPRESSED CHLORINE GAS
(CHLORINE LIQUEFIED GAS UNDER PRESSURE)**

Hazard Class 2.3 (8)

UN1017

Poison-Inhalation Hazard Zone B

RQ: 10lbs



DO NOT REMOVE THIS TAG

ANSI/NSF Designation

FOR USE AS A DISINFECTANT, by experienced personnel only. In municipal water supplies, sewage and water management plants and industrial, residential and commercial swimming pools. Certified to ANSI/NSF Standard 60. Maximum use in potable water is 30 mg/L.



GENERAL OPERATING INSTRUCTIONS

Ton chlorine containers have two valves in one head. With the container in the horizontal position, and the valves in a vertical line, gas will be delivered from the upper valve and liquid from the lower valve.

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

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

Container temperature should not exceed 130° F (54.4° C).

NEVER HEAT A CHLORINE CONTAINER OR THE 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 the 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,**

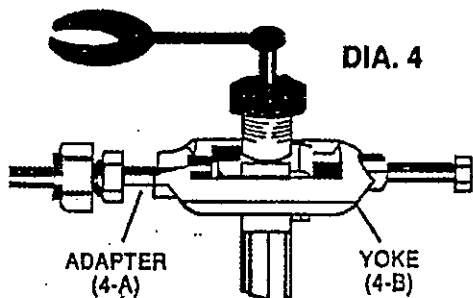
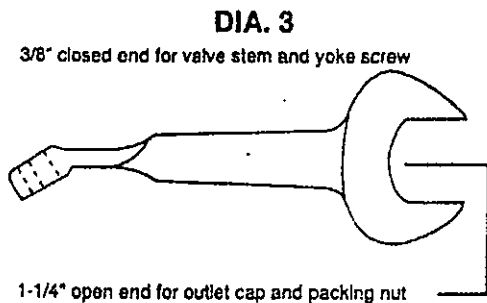
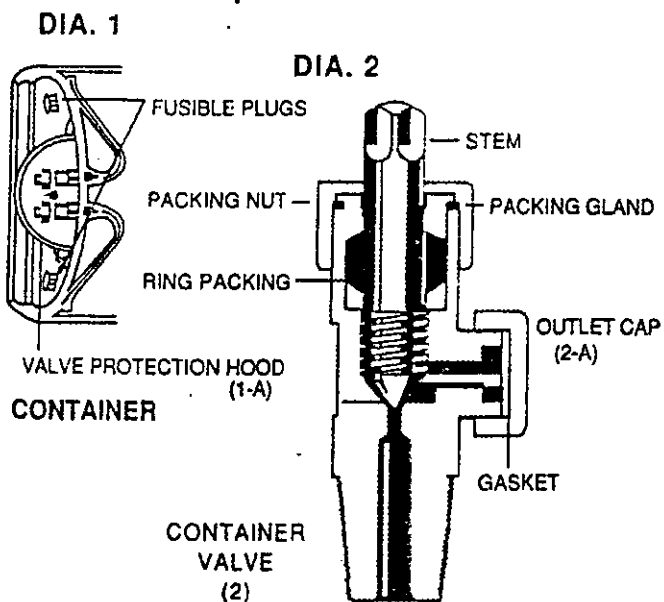
USING CHLORINE IN CONTAINERS (See diagrams 1-4)

CONNECTING AND DISCONNECTING

Use a special adapter (4-A) to connect container to piping system. To connect line to container, remove valve protection hood. (1-A) and valve outlet cap (2-A). Then use the wrench (3) shown to attach tubing to valve with yoke (4-B). Use a new gasket with each time a connection is made. Make sure connections are tight. Check for leaks with ammonia vapor. Appearance of white vapor indicates a chlorine leak. Never use standard pipe fittings.

Turn the stem one full turn counterclockwise to open the valve (2). 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 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 moisture.



DO NOT REMOVE THIS TAG

DANGER: Empty Cylinders and Tons Contain Chlorine Residue. Always Return Empty Cylinders and Tons with Valve Protective Housing.

THIS PACKAGE CONTAINS A NEW SEALING GASKET