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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

JAN 1 1 2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Robin E. Bolte Chemical Formulators, Inc. 3901 N.W. 115<sup>th</sup> Avenue Miami, FL 33178



Subject:

CHLORINE GAS

EPA Reg. No.: 70529-1

Application Dated: October 6, 2010 Receipt Dated: October 14, 2010

## Dear Ms. Bolte:

The labeling for the product referred to above submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended (FIFRA) is accepted subject to the comments/conditions listed below.

#### Conditions:

- 1. The routes of exposure under the First Aid section must appear in the following order: If Inhaled, If On Skin Or Clothing, If In Eyes, If Swallowed.
- 2. Revise the "Hazards to Humans and Domestic Animals" statement as follows:

**DANGER.** Fatal if inhaled or absorbed through the skin. Corrosive. Cause 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 when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged frequently repeated skin contact may cause allergic reactions in some individuals.

- 3. Add the "First Aid" heading above the routes of exposure on the label.
- 4. This product is classified as toxicity category 1, which requires the First Aid statement to appear on the Front Panel.

## General Comment:

A stamped copy of the labeling accepted with conditions is enclosed. Submit one copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact me at <a href="mailto:Henson.Wanda@epa.gov">Henson.Wanda@epa.gov</a> or on (703) 308-6345.

Sincerely,

Wanda Y. Henson

Acting Product Manager - Team 32 Regulatory Management Branch II Antimicrobials Division (7510P)



**ACCEPTED** with COMMENTS in EPA Letter Dated:

JAN 1 1 2011

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 70529-1

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# **CHLORINE GAS**

(CHLORINE LIQUEFIED GAS UNDER PRESSURE) Chlorine, Hazard Class 2.3, UN1017, Poison-Inhalation Hazard Zone B, RQ Chemical Formulators, Inc. 5215 W. Tyson Ave. Tampa, FL 33611 (813) 832-4868

DO NOT REMOVE THIS TAG Net Contents: 150 lbs. 2000 lbs.

KEEP OUT OF REACH OF CHILDREN

DANGER



POISON

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS

"FOR USE AS A DISINFECTANT, SANITIZER AND/OR ALGAECIDE, by experienced personnel only, in municipal water supplies, sewage and waste management plants, industrial water, water cooling systems, pulp and paper mills, in sanitizing food handling premises and equipment, wash water for agricultural commodities, repackaging into portable containers, and industrial, residential, or commercial swimming pools.

Certified to NSF/ANSI Standard 60. Maximum use in potable water is 30mg/L.

ACTIVE INGREDIENT:

Chlorine: 99.5%

Chlorine: 99.5%
Other: .5%
Total: 100%

FATAL IF INHALED - LIQUID CAUSES SEVERE BURNS
HAZARDOUS 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.

EPA REG. NO. 70529-1, EPA EST. 70529-FL-001

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PRECAUTIONARY STATEMENTS

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PRECAUTIONARY STATEMENTS

Inhalation: If inhaled, move person to fresh air and get medical attention immediately. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to mouth if possible. If breathing is difficult, oxygen should be administered by qualified personnel. Call poison center or medical physician for treatment advice.

Skin Irritation (Skin or Clothing Contact with Liquid Chlorine); In case of skin contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Destroy contaminated shoes. Skin Irritation (Contact with Gaseous Chlorine); In case of skin contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion: If swallowed, call poison control center or medical physician immediately for treatment advice. Have the product label with you when calling or going for medical treatment. Have exposed person sip a glass of water if able to swallow. Do NOT iNDUCE VOMITING unless told to by a poison control center or medical physician. Do NOT give anything by mouth to an unconscious person control center or medical physician. Do NOT give anything by mouth to an unconscious person sip at glass of water if able to swallow. Do NOT iNDUCE VOMITING unless told to by a poison control center or medical physician. Do NOT give anything by mouth to an unconscious person control center or medical physician. Do NOT give anything by mouth to an unconscious person immediately.

Note to Physician: Symptoms may become more sever up to 36 hours after exposure including pulmonary edema. Probable mucosal damage may contraindicate the use of gastric lavage.

HAVE THE PRODUCT LABEL WITH YOU WHEN CALLING A POISON CONTROL CENTER OR MEDICAL PHYSICIAN, OR GOING FOR TREATMENT.

Personal protective eq

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 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 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

**DIRECTIONS FOR USE** 

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 FUSE 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 <a href="https://www.CL2.com">www.CL2.com</a>.

Chlorine Manual Piping Systems Chlorine Packaging Plants		Railcar Handling Cylinders at Swimming Pools Potable Water Treatment	CI Pamphlet #66 CI Pamphlet #82 CI Pamphlet #15
Cargo Tank Handling	CI Pamphlet #49	Wastewater Treatment	CI Pamphlet #15
Emergency Response	CI Pamphlet #64		
Personal Protective Fournment	CI Pamphlet #65		

Emergency Response

CI Pamphlet #64

Applications

As a disinfectant in potable water and wastewater treatment,
As a disinfectant and algaecide in non-residential swimming pools,
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 asinitizer for wash water treatment,
For wash water for raw agricultural commodities and certain other food commodities,
For repackaging into smaller containers.
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 repackaging must obtain its own EPA Registration Number for this pesticide for the use, and
its own EPA Establishment Number from the EPA. Repackagers may only dispense its product to
portable containers that are approved for chlorine and are appropriately labeled.

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 divides metals such as fillings 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 Kif 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, evacuate everyone from the immediate area. For entry find the affected area
to correct problem, wear personal protective equipment (including prescribed respirators) specified in
the Hazards to Humans sectio

**DANGER:** Empty package contains chlorine residue.

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