

748-31

12/16/2003

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December 16, 2003

Donna L. Butler  
PPG Industries, Inc.  
One PPG Place 8 North  
Pittsburgh, PA 15272

Subject: Chlorine  
EPA Registration No. 748-31  
Application Date: September 29, 2003  
Receipt Date: October 2, 2003

Dear Ms. Butler:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

**Conditions**

- 1. Revise the Ingredient statement as follows:

Active Ingredient:  
Chlorine ..... 99.5%  
Other Ingredients ..... 0.5%

- 2. The Precautionary Statement should read:

**HAZARDS TO HUMAN 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.

**CONCURRENCES**

SYMBOL	7510C						
SURNAME	Mitchell						
DATE	12-16-03						

3. *The "Personal Protective Equipment" statement must be added to the label.*

*Applicators and other handlers must wear long-sleeved shirts, long pants, shoes and socks.*

**General Comments**

*A stamped copy of the labeling accepted with conditions is enclosed. Submit a 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 Wanda Mitchell at (703) 308-6345.*

*Sincerely,*

*Robert S. Brennis  
Product Manager - Team 32  
Regulatory Management Branch II  
Antimicrobials Division (7510C)*



<b>FIRST AID</b>	
If Inhaled	<ul style="list-style-type: none"> <li>* After properly protecting yourself, move person to fresh air.</li> <li>* Contact a poison control center, emergency room or physician as soon as possible as further treatment will be necessary</li> <li>* If person is not breathing, call 911 or an ambulance, then give artificial respiration immediately.</li> <li>* Trained personnel should administer humidified oxygen.</li> </ul>
If on Skin or Clothing (contact with liquid chlorine)	<ul style="list-style-type: none"> <li>* Use an emergency shower immediately for at least 15 minutes.</li> <li>* Remove contaminated clothing under the shower.</li> <li>* Call a Poison Control Center or doctor for treatment advice.</li> </ul>
If on Skin (contact with gaseous chlorine)	<ul style="list-style-type: none"> <li>* Immediately change contaminated clothing and wash exposed area with soap and water.</li> <li>* Refer to a physician if irritation persists or if the skin is blistered or broken.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>* Hold eye open and rinse slowly and gently with water for 15-20 minutes. If contact lenses are present, remove the lenses after the first 5 minutes, then continue rinsing eye.</li> <li>* Call a Poison Control Center or doctor for treatment advice.</li> </ul>
<p>Contact 1-304-843-1300 or your Poison Control Center for 24-hour emergency medical treatment information. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b>NOTE TO PHYSICIAN</b></p> <p>* Symptoms may become more severe up to 36 hours after exposure including pulmonary adema.</p>	

ACCEPTED  
WITH COMMENTS  
In EPA Letter Dated:

DEC 16 2003

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended by the FIFRA Act of 1990,  
Registration No. 748-31

475

# CHLORINE

UN1017 RO  
LIQUEFIED GAS UNDER PRESSURE. NON-FLAMMABLE

FOR USE AS A DISINFECTANT AND/OR ALGICIDE, by EXPERIENCED personnel only in the treatment of municipal water supplies, sewage and waste management plants, and to repackers in accordance with all applicable federal, state, and local laws and regulations pertaining to these intended uses, or to be sold in tank cars and barges.

FOR USE IN MANUFACTURING PROCESSES

Active ingredient:

Chlorine ..... 99.5%  
Inert ingredients ..... 0.5%

**KEEP OUT OF REACH OF CHILDREN**

ACCEPTED  
with COMMENTS  
EPA Letter Dated

DEC 16 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act, amended for the first time, registered under EPA Reg. No. 748-31

## DANGER!



## POISON



• MAY BE FATAL IF INHALED

• CORROSIVE - CAUSES SEVERE BURNS

### + FIRST AID +

**INHALATION:** Immediately remove patient from contaminated area to fresh air. If breathing, place in comfortable position. Keep warm and at rest until a physician arrives. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration immediately, preferably mouth-to-mouth. In all above circumstances, call a physician as soon as possible. Rest is recommended after chlorine exposure.

**EYE/SKIN CONTACT:** Immediately flush eyes with water (soap and water for skin) for at least 15 minutes, while removing contaminated clothing. If irritation occurs, consult a physician. NEVER ATTEMPT CHEMICAL NEUTRALIZATION. Do not give any medication except under specific instructions from a physician.

**THROAT IRRITATION:** Drinking milk may help relieve the discomfort of throat irritation from chlorine exposure.

**COUGHING:** A mild stimulant such as hot coffee or tea is often used.

new \*

**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.

## PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS

- Personnel near or handling chlorine should at all times carry a NIOSH-approved cartridge type escape respirator and be trained in its use.
- AVOID BREATHING GAS.**
- USE WITH ADEQUATE VENTILATION.**  
Ventilation must be sufficient to limit employee exposure at or below OSHA permissible exposure limit (0.5 ppm TWA, 1.0 ppm STEL).
- AVOID CONTACT WITH EYES, SKIN, OR CLOTHING.** At high concentrations, chlorine is corrosive to eyes, skin and mucous membrane in the presence of moisture.



PPG INDUSTRIES, INC.  
One PPG Place  
Pittsburgh, PA 15272

L119A-WV-397H

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# CHLORINE

UN1017

RQ

LIQUEFIED GAS UNDER PRESSURE, NON-FLAMMABLE

<b>EXPOSURE</b>	Remove patient from contaminated area. If breathing, place in a comfortable position, keep warm and at rest until physician arrives. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration, preferably mouth-to-mouth. Call a physician as soon as possible. Keep patient at rest.
<b>SPILL OR LEAK</b>	Immediately evacuate area. Only trained personnel wearing NIOSH - approved, full-face, self-contained breathing apparatus and full protective clothing may enter area to locate leak. DO NOT PUT WATER ON LEAK. Use appropriate emergency capping kit.
<b>FIRE</b>	Cannot catch fire. Notify fire-fighting personnel chlorine containers are in area. Otherwise, keep containers cool with water spray. Chlorine will support combustion. Reacts readily with hydrocarbons, alcohols, ethers, ammonia, hydrogen, and some metals, sometimes with explosive violence. Will react with (burn) steel containers at temperatures above 450°F.
<b>EMERGENCY</b>	Transportation Incident: Contact CHEMTREC at (800) 424-9300. In all other emergencies, contact PPG Industries, Inc., (304) 843-1300.

## DANGER! POISON

• MAY BE FATAL IF INHALED

• CORROSIVE - CAUSES SEVERE BURNS

### DIRECTIONS FOR USE:

It is a violation of federal law to use this product in a manner inconsistent with the labeling. Have available full-face, self-contained breathing apparatus approved by the U.S. Mine Safety and Health Administration or the National Institute for Occupational Safety and Health. Handle and use only in accordance with practice recommended in the Chlorine Manual published by Chlorine Institute, Inc. New York. Use only in well-ventilated areas. Only specifically designed dispensing equipment should be used and only 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.

For specific information refer to the Chlorine Institute Pamphlet 66, "Chlorine Tank Car Loading, Unloading, Air Padding, Hydrostatic Testing."

Cars must be monitored during the unloading operation. When not in use or when car is left unattended, valves must be closed and unloading lines disconnected.

ALWAYS BE PREPARED FOR AN EMERGENCY! See Chlorine Institute Pamphlet 64, Emergency Control Planning Checklist.

### STORAGE AND DISPOSAL

Chlorine tank cars and tank trailers are designed for reuse and must be returned to the supplier. The tank cars or tank trailers to be returned should be identified with DOT tag or label and shipping in accordance with supplier's instructions. Bulk storage containers must not be left unlabeled and accessible to the general public. All storage containers must have a weather resistant label attached near outlet valve.

ACCEPTED WITH COMMENTS In EPA Letter Dated

DEC 16 2003

For use as a pesticide, this product acts as a pesticide, for the pesticide, registered under EPA Reg. No. 748-31

EPA REG. No. 748-31  
EPA EST. No. 748-WV-1



PPG INDUSTRIES, INC.  
One PPG Place  
Pittsburgh, PA 15272

Net Weight \_\_\_\_\_ Tons  
L119A-WV-397H

SEE REVERSE SIDE FOR PRECAUTIONS AND FIRST AID

NOTE: READ TAG BEFORE UNLOADING