



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

JUN 30 2010

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Rose Bedwell
Occidental Chemical Corporation
P.O. Box 809050
Dallas, TX 75380

FILE COPY

Subject: Chlorine Liquefied Gas
EPA Registration No. 935-8
Submission Dated: March 31, 2010
Receipt Dated: April 1, 2010

Dear Ms. Bedwell:

The labeling for the product referred to above submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended to include the appropriate pamphlets/booklets, is acceptable with a comment/condition listed below.

Condition:

Revise the "Skull and Crossbones" symbol in the appropriate design and color required in the Re-registration Document.

General Comments:

A stamped copy of the labeling accepted with a condition 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 Henson.Wanda@epa.gov or call (703) 308-6345.

Sincerely,

A handwritten signature in black ink, appearing to read "Wanda Y. Henson".

Wanda Y. Henson
Acting Product Manager (32)
Regulatory Management Branch II
Antimicrobials Division (7510P)

OxyChem®

CHLORINE

LIQUEFIED GAS UNDER PRESSURE

ACTIVE INGREDIENT:

Chlorine.....	99.5%
Other Ingredients	0.5%
Total	100%

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 30 2010

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. **935-8**

KEEP OUT OF REACH OF CHILDREN

DANGER



POISON

FATAL IF INHALED, LIQUID CAUSES SEVERE BURNS
APPROXIMATE NET CONTENTS: 90 TONS

PRECAUTIONARY STATEMENTS

FIRST AID	
If inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably 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 immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
If swallowed	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
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.	
HAVE THE PRODUCT CONTAINER OR LABEL WITH YOU WHEN CALLING A POISON CONTROL CENTER OR MEDICAL PHYSICIAN, OR GOING FOR TREATMENT.	

HAZARDS 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 it before reuse. Prolonged frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear long-sleeved shirts, long pants, shoes and socks. Under normal use conditions, no protective eyewear or gloves are required.

IN CASE OF SPILL OR LEAKAGE:

Handlers must wear chemical-resistant, waterproof, insulated gloves (such as nitrile or butyl), rubber boots and full-face respirators approved for chlorine (MSHA/NIOSH approval number prefix TC-14G) or 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 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 of spill.

ENVIRONMENTAL HAZARDS

This product 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.

(SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS)

Handwritten scribbles and marks at the bottom right of the page.

PRECAUTIONARY STATEMENTS (Cont.)

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.

DIRECTIONS FOR USE - GENERAL CLASSIFICATION
<p>It is a violation of Federal law to use this product in a manner inconsistent with the labeling.</p> <p>USE AS A DISINFECTANT, by experienced personnel only, in municipal water supplies, sewage and waste management plants, in accordance with applicable local, state and federal regulations.</p> <p>USE IN MANUFACTURING PROCESSES, by trained personnel only, in production of bleach, plastics, chlorinated solvents, refrigerants and intermediates for products containing no chlorine. Proper training in safety and use of protective equipment are essential. Well-designed and maintained handling and processing facilities are required.</p>

STORAGE AND DISPOSAL

LEAK PROCEDURES: Make 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 to perform such cleanup. Do not permit entry into the leak area by any other person until the chlorine has completely dispersed.

HANDLING AND STORAGE: Provide special training to workers handling chlorine. Protect from physical damage. Do not place chlorine containers near heat or fire. Handling and storage of chlorine containers should be in accordance with all local, state, and federal regulations. Regularly test and inspect piping and containment used for chlorine service. Liquid levels should be 85% of tank or cylinder capacity. Use in well-ventilated area.

IN THE EVENT OF FIRE: Remove chlorine containers from fire zone immediately. Use water to keep containers cool which cannot be moved, but do not use water on the source of a chlorine leak. Use water spray to direct chlorine away from persons effecting shut-off. Wear full protective clothing and self-contained breathing apparatus.

DISPOSAL: Vent waste chlorine gas into scrubber using dilute alkali solution. Dispose of resultant hypochlorate in accordance with local, state and federal regulations. Return empty chlorine tankcars and cargo tanks containing residual gas and/or liquid to supplier in compliance with applicable DOT regulations. Refillable container. Refill this container with Chlorine Gas only. Do not reuse this container for any other purpose.

Consult Chlorine Institute pamphlets for additional instructions and management procedures. Pamphlet 1 (*Chlorine Basics*) and Pamphlet 155 (*Water and Wastewater Operators Chlorine Handbook*) are available for free at: www.chlorineinstitute.org or by calling the Chlorine Institute at: 800-662-3916.

FOR ASSISTANCE IN CHEMICAL EMERGENCY, CALL CHEMTREC 800-424-9300

Spills of 10 pounds or more must be reported to the NATIONAL RESPONSE CENTER 1-800-424-8802

UN 1017 HMS HAZARD RATING: HEALTH..... 3 FLAMMABILITY..... 0 REACTIVITY..... 0	CAS No. 7782-50-5 NFPA FIRE HAZARD RATING 
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✓	EPA REG. NO. 935-8	✓	EPA REG. NO. 935-8
	EPA EST. NO. 935 AL-001		EPA EST. NO. 935 LA-001
	EPA EST. NO. 935 NY-001		EPA EST. NO. 935 LA-002
	EPA EST. NO. 935 TX-001		EPA EST. NO. 5382-LA-1
	EPA EST. NO. 935 TX-002		EPA EST. NO. 5382-KS-1



Occidental Chemical Corporation
P. O. Box 809050
Dallas, TX 75380-9050

Certified to ANSI/NSF Standard 60
Maximum Use Level for Potable Water 30.0 mg/L

Label: M30816_0106_OC_US_(g_EPA (0909)R03