

PM 32

5785-58

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1/9

Great Lakes Chemical Corporation  
P.O. Box 2200  
West Lafayette, IN 47906

APR 17 1996

Attn: Michael Kelly, Ph.D.  
Technical Director

Subject: Chloropicrin  
EPA Registration No. 5785-58  
Your Submission of November 24, 1993

EPA has reviewed your amendment request to modify the subject product labeling by deleting, in conjunction with the Chloropicrin Manufacturers Task Force (CMTF), the following uses through voluntary cancellation: structural fumigation, aquatic, forestry and post-harvest uses. In addition to the use deletions your amendment also proposed minor changes to the language of the "Personal Protective Equipment" section of the product label. Please note the following.

The labeling referred to above submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. A stamped copy is enclosed for your records.

1. Add the following sentence to the "Directions For Use" section:

"Reformulators and repackagers of this product must obtain their own registration from the Environmental Protection Agency."

2. Revise the Environmental Hazards statement to read:

"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 Pollution Discharge Elimination (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."

CONCURRENCES

SYMBOL	7505C						
SURNAME	Tracy						
DATE	APR 17 1996						

2/7

- One copy of the finished labeling which incorporates the preceding comments must be submitted before releasing the product for shipment.

If you should have any questions concerning this letter, you may call Robert Travaglini on (703) 305-6909.

Sincerely,

*Robert Travaglini for*

Ruth G. Douglas  
Product Manager (32)  
Antimicrobial Program Branch  
Registration Division (7505C)

cc. Sara Beth Watson, Steptoe & Johnson, LLP  
Agent for CMTF

3/7

CHLOROPICRIN

FOR MANUFACTURING PESTICIDE/FUMIGANT FORMULATIONS

For the manufacture of pesticide formulations for preplant soil fumigation of terrestrial food crops, ornamentals and nursery beds; for greenhouse preplant soil fumigation of food crops, ornamentals and nursery beds. Deleted use patterns, see correspondence.

Active Ingredient:

Chloropicrin . . . . .	96.5%
Inert Ingredients . . . . .	3.5%
Total	100.0%

ACCEPTED with COMMENTS in EPA Letter Dated:

APR 17 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5785-58

DANGER  
PELIGRO  
KEEP OUT OF REACH OF CHILDREN  
POISON

One gallon of Chloropicrin weighs 14 pounds.

PRECAUCION AL USUARIO: Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.

IF INHALED: Remove victim to fresh air immediately. Keep victim lying down and warm. Make sure person can breathe freely. If breathing has stopped, give artificial respiration, preferably mouth-to-mouth. Do not give anything by mouth to an unconscious person.

SKIN CONTACT: Immediately remove all contaminated clothing, shoes, and other items covering skin. Wash contaminated skin area thoroughly with soap and water.

EYE CONTACT: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT: \_\_\_\_\_ LBS.

EPA REG. NO. 5785-58

LOT NO.: \_\_\_\_\_

EPA EST. NO. 5785-AR-01

GREAT LAKES CHEMICAL CORPORATION  
West Lafayette, IN 47906

4/7

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER  
PELIGRO

Poisonous liquid and vapor. Inhalation of vapors may be fatal. Chloropicrin is readily identifiable by smell. Exposure to very low concentrations of vapor will cause irritation of eyes, nose and throat. Continued exposure after irritation, or higher concentrations may cause painful irritation to the eyes or temporary blindness. Liquid will cause chemical burns to skin and eyes. Do not get on skin, in eyes, or on clothing. Harmful or fatal if swallowed.

**NOTE TO PHYSICIAN:** Chloropicrin is a volatile liquid that is the active ingredient in tear gas. As a gas it is a powerful lachrymator. Early symptoms of overexposure are lachrymation, respiratory distress and vomiting. Pulmonary edema may develop later. Treatment is symptomatic.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category H on an EPA Chemical resistance category selection chart.

- Workers with potential to be directly exposed must wear:
- Loose-fitting or well ventilated clothing
- Socks and chemical resistant footwear
- Chemical-resistant gloves, such as barrier laminate and viton, when handling liquid
- Chemical-resistant apron, when handling liquid
- Protective eyewear, when handling liquid

When a respirator is not required, protect the eyes from liquid by wearing a full face shield (goggles are not recommended). No respirator is required if the air concentration level of chloropicrin in the working area is measured to be less than 0.1 ppm.

Full face mask respirators are required under the following circumstances:

- if the air concentration level exceeds 0.1 ppm at any time, workers with direct exposure potential must wear (a) a respirator with an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), OR (b) a respirator with a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
- if the air concentration level exceeds 4 ppm at any time, workers with direct exposure potential must wear (a) supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C), OR (b) a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F).

5/7

**AIR CONCENTRATION LEVEL:**

The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm (0.7 mg/M<sup>3</sup>). If the air concentration level exceeds 0.1 ppm, an air-purifying respirator must be worn. If the air concentration level exceeds 4 ppm, an air-supplying respirator must be worn. The air concentration level is measured by a direct reading detection device such as a Matheson-Kitagawa.

**WORKER SAFETY REQUIREMENTS:**

1. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.
2. Clean PPE after each day's use. Air-expose reusable PPE and work clothing outside until free of all traces of fumigant. Then follow PPE manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE and work clothing separately from other laundry.

**USER SAFETY RECOMMENDATIONS:**

Users should:

- Wash hand before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Supply your physician with information on chloropicrin, which is available from Great Lakes Chemical Corporation.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and wildlife. Keep out of lakes, streams, or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. Open dumping is prohibited.

**SPILL AND LEAK PROCEDURES:**

Evacuate everyone from the immediate area of the spill or leak. For entry into affected area to correct problem, wear the personal protective equipment (including prescribed respirator) specified in the Hazards to Humans section of this labeling. Move leaking or damaged containers outdoors or to an isolated location. Observe strict safety precautions. Work upwind, if possible. Allow spilled fumigant to evaporate or to absorb onto vermiculite, dry sand, earth, or similar absorbent material. Such material should be disposed of on site or at an approved disposal facility. Only correctly trained and PPE-equipped handlers are permitted to perform such cleanup. Do not permit entry into spill or leak area by any other person until the concentration of chloropicrin is measured to be less than 0.1 ppm.

6/7

### PHYSICAL AND CHEMICAL HAZARDS

Chloropicrin may be corrosive under certain conditions. DO NOT USE WATER to clean equipment. Flush equipment with kerosene or fuel oil. Do not use handling equipment or containers made from magnesium, alloy, aluminum, or alkali metals. Chloropicrin is a nonflammable liquid.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Chloropicrin is to be used for manufacturing pesticide formulations for: (1) preplant soil fumigation of terrestrial food crops, ornamentals and nursery beds, and (2) greenhouse preplant soil fumigation of food crops, ornamentals and nursery beds. Only protected workers may be in the area during processing with this product. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. *Deleted uses, per correspondence.*

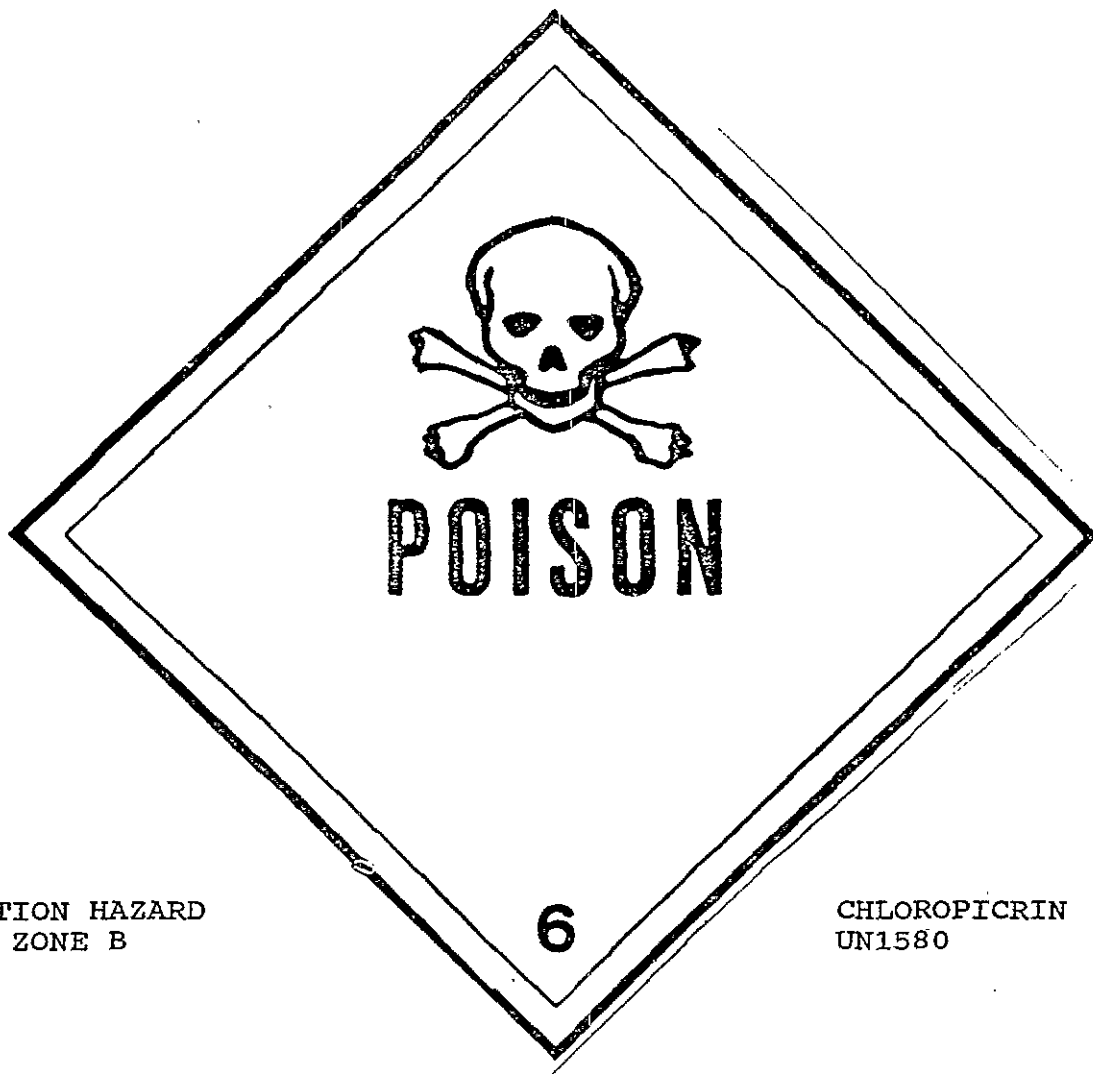
Registration by the Environmental Protection Agency is required before the new product may be lawfully distributed in interstate commerce.

### STORAGE AND DISPOSAL

**Storage and Handling:** Store upright in a cool, dry, well-ventilated area under lock and key. Do not remove safety caps until just prior to use. Do not contaminate water, food, or feed by storage or disposal. Persons opening containers must wear the personal protective equipment (including prescribed respirator) specified in the Hazards to Humans section of this labeling. Open container only in a well-ventilated area.

**Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes can not be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Return empty cylinders freight collect to the Great Lakes Chemical Corporation location from which shipment was made. Close cylinder valve by turning clockwise until hand tight. Disconnect lines. Replace safety caps and bonnet. Return partial cylinders only after consulting Great Lakes Chemical Corporation for proper shipping instructions.

7/9



INHALATION HAZARD  
HAZARD ZONE B

CHLOROPICRIN  
UN1580

NOTE: Seller warrants that this product complies with the specifications expressed in this label. Seller makes no other warranties; and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. Seller's liability for default, breach, or failure under this label shall be limited to the amount of the purchase price. Seller shall have no liability for consequential damages.

© Copyright 19xx Great Lakes Chemical Corporation

AR-58-D