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OCTAGON PROCESS INC.
EDGEWATER, NEW JERSEY 07020

INSECTICIDE, LINDANE
(GAMMA ISOMER OF BENZENE HEXACHLORIDE)

EMULSIFIABLE, 12% CONCENTRATE

OCTAGON L-533

FEDERAL SPECIFICATION 0-1-533

CONTAINS 12 GRAMS OF LINDANE PER 100ml.
APPROXIMATELY 1 LB. LINDANE PER GALLON

ACCEPTED
with COMMENTS
in EPA Letter Dated

MAY 9 1984

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
6830-2

ACTIVE INGREDIENTS

Gamma Isomer of Benzene Hexachloride
(from Lindane)

Aromatic Petroleum Derivative Solvent *HAN*

Xylene

INERT INGREDIENTS

PERCENT BY WEIGHT

12.0

73.0

12.0

3.0

100.0

TOTAL

CAUTION

HARMFUL IF SWALLOWED

KEEP OUT OF REACH OF CHILDREN

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME

RESTRICTED USE PESTICIDE

FOR APPLICATION ONLY BY OR UNDER THE DIRECT SUPERVISION OF A CERTIFIED APPLICATOR.

Applicators must wear the following protective clothing during the application process: a light-weight protective suit or coveralls; water-resistant hat; unlined, waterproof gloves; and unlined, lightweight boots. Mixers and loaders must also wear goggles or a face shield, waterproof gloves and a waterproof apron.

Applicators working in enclosed areas, such as crawl spaces, must wear a respirator approved by OSHA (29 CFR 1910.134).

Aerial application of Lindane is prohibited.

Lindane is a highly toxic chemical. It must be handled and used only when special precautions are observed. Concentrate solution must be diluted with water as directed before use. Do not use sea water for dilution except in emergency when other water is not available. It is not to be used on humans or animals. Do not use as space spray. Do not store in mess halls or near food. Avoid contaminating food, food utensils, eating utensils, or water supply. Outdoor spraying should be done with the



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operator upwind in relation to the surface or equipment sprayed.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: May be fatal if swallowed. May be absorbed through the skin. Do not breathespray mist. Avoid contact with skin and eyes. Do not use on household pets.

ENVIRONMENTAL HAZARD

This product is toxic to fish, birds and other wildlife. Keep out of any body of water. Do not apply when weather conditions favor drift from areas treated. Do not contaminate any body of water by direct application or by cleaning of equipment or disposal of waste or container. Do not apply where runoff is likely to occur. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated areas. Do not apply when bees are actively visiting in treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity. Food utensils such as teaspoons or tablespoons should not be used for food purposes after measuring pesticides.

POISONING

If swallowed, call a physician or Poison Control Center immediately. Gastric lavage is indicated if material was taken internally. DO NOT INDUCE VOMITING unless other treatment is not available. Vomiting may cause aspiration pneumonia. If necessary to induce vomiting, it should be done under medical supervision. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled, remove victim to fresh air. Apply artificial respiration if indicated.

If on skin, remove contaminated clothing. Wash affected area with plenty of soap and water. Launder clothing before reusing.

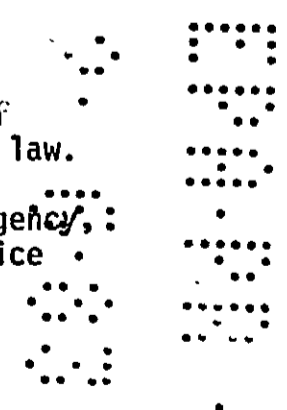
If in eyes, flush with plenty of water. Call a physician immediately.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not contaminate water by cleaning of equipment or disposal of wastes and containers.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot 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.

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CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

MIXING INSTRUCTIONS

This concentrate will not form emulsions that are stable indefinitely. To insure good performance: 1. Prepare the emulsion as soon before actual use as possible. 2. Pour the proper amount of concentrate slowly into the water with constant agitation. The agitation shall be as vigorous as possible and shall be continued for at least 3 minutes after the last of the concentrate has been added. 3. The emulsion shall again be thoroughly agitated for at least 1 minute immediately before use.

CARE OF EQUIPMENT: After use with lindane emulsion all equipment should be carefully cleaned, dried, treated with an anti-rust agent, and stored so as to avoid corrosion.

DIRECTIONS FOR USE

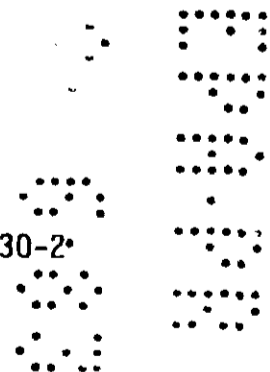
RESIDUAL SPRAY IN BUILDINGS. Mosquitoes and flies and sand flies (culicoides). Add 1 part of emulsifiable concentrate to 22 parts of water and mix thoroughly. This makes 0.5% lindane spray. Apply thoroughly to surfaces just short to run off. One and one third gallons finished spray will usually be required to treat 1,000 square feet resulting in a deposit of about 50 mg. of lindane per square foot of surface area. Application should be restricted to areas where these insects gather, such as around windows, doors and light fixtures. **ROACHES AND ANTS (OTHER INSECTICIDE ITEMS PREFERRED BUT LINDANE MAY BE USED AS AN ALTERNATE TREATMENT).** Mix as above and apply to the 0.5 percent lindane emulsion as a surface spot spray to cracks, crevices, and other places where the roaches and ants crawl or hide.

OUTDOOR SPRAY (GROUND EQUIPMENT). Mosquitoes and flies and sand flies (culicoides). For temporary control of these insects around camp sites and bivouac areas, add 1 part of emulsifiable concentrate to 29 parts of water and mix thoroughly. This makes a 0.4 percent lindane spray. Apply lightly to vegetation, tree trunks, and other surfaces at the rate of 5 to 10 gallons per acre depending on the amount of vegetation and other surfaces to be treated. **MITES (CHIGGERS), TICKS AND FLEAS.** For control of mites and ticks apply the 0.4 percent lindane spray to ground litter and low vegetation at the rate of 10 to 20 gallons per acre depending on the amount of vegetation and litter. For flea control apply at the same rate to infested grounds and under buildings.

USE RESTRICTED TO INDUSTRIAL AND COMMERCIAL BUILDINGS

EPA REG. NO. 6830-2

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

Ms. Joan Benvenuti
Octagon Process Inc.
596 River Rd.
Edgewater, NJ 07020

Dear Ms. Benvenuti:

Subject: Lindane RPAR
Insecticide Lindane, Octagon L-533
EPA Reg. No.: 6830-2
Appl. Date: December 2, 1983

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. We note the labeling bearing both "CAUTION" and "WARNING" as signal words; the signal word must be consistent throughout the labeling. Since both technical lindane and the solvents, are in toxicity category II (WARNING); change "CAUTION" to "WARNING" wherever it appears on the labeling.
2. Move the "KEEP OUT OF REACH OF CHILDREN" to a position just above the front panel signal word. It is also preferred that the "KEEP OUT OF REACH OF CHILDREN" appear in all capital letters for maximum prominence.
3. The RPAR Notice incorrectly indicated the language to be used for the RESTRICTED USE PESTICIDE statement. Delete "For application only by or under the direct supervision of a certified applicator" and insert the following at the top of the front panel above the product name. (Note: the type size requirements for the heading "RESTRICTED USE PESTICIDE" are the same as required for the front panel signal word.)

"RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification."

4. Revise your respirator statement to read as follows:

"Wear a pesticide respirator jointly approved by MSHA (Mine Safety and Health Administration) and by NIOSH (National Institute for Occupational Safety and Health) under the provisions of 30 CFR Part 11 for Lindane protection.

5. In the ingredients statement change "Aromatic Petroleum Derivative Solvent" to "Heavy Aromatic Naptha" since this is what the solvent actually is.

6. Insert "It is a violation of Federal law to use this product in a manner inconsistent with its labeling." to immediately follow the heading "DIRECTIONS FOR USE".

7. Immediately preceding the heading "HAZARDS TO HUMANS AND DOMESTIC ANIMALS" insert the following heading:

"PRECAUTIONARY STATEMENTS"

8. Add the following to appear in the "HAZARDS TO HUMANS..." section:

"Wash hands with soap and water after use and before eating or smoking."

9. "DO NOT USE....OPEN FLAME." should appear under the heading "PHYSICAL OR CHEMICAL HAZARDS" and should be moved to follow the "ENVIRONMENTAL HAZARDS" section as the end of the "PRECAUTIONARY STATEMENTS" group.

10. Although "POISONING" is an acceptable heading "STATEMENT OF PRACTICAL TREATMENT" is the preferred heading for this section.

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Submit an updated Confidential Statement of Formula for the subject product.

Submit five (5) copies of your revised final printed labeling before you release the product for shipment with the amended labeling.

A stamped copy of the label is enclosed for your records.

If you hold a Federal registration, a supplemental registration, or a Special Local Needs registration, you may continue to produce new stocks of such products, using current labeling, until ~~May~~^{June} 1, 1984. After that date, all remaining inventories of affected products will fall under the Existing Stocks provisions stated in our letter of October 28, 1983.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure