

DEC 23 1983
19713-131 Carbaryl 4 Oil



An Oil Suspension For Control Of Insect Pest

ACTIVE INGREDIENTS:	Carbaryl (1-Naphthyl Methylcarbamate)	49.0%
	Petroleum Oils	46.3%
INERT INGREDIENTS:		4.7%
	TOTAL:	100.0%

Product contains 4 pounds of carbaryl as active ingredient

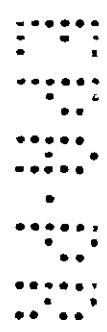
**KEEP OUT OF THE REACH OF CHILDREN
CAUTION**

STATEMENT OF PRACTICAL TREATMENT
IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.
IF ON SKIN: Immediately remove contaminated clothing, INCLUDING SHOES, and wash skin with soap and plenty of water. If irritation develops, send for a physician.
See Side Panel For Additional Precautionary Statements.

EPA Registration No. 19713-131
EPA Est #19713-MS-1

Net Content:

Manufactured by: Drexel Chemical Company
Memphis, Tennessee 38109



PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals.

CAUTION: Harmful if swallowed. Avoid contact with eyes, skin or clothing. Avoid breathing spray. Wash thoroughly after handling. Wash hands and face before eating or smoking.

ENVIRONMENTAL HAZARDS

This product is toxic to birds and other wildlife. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

BEE CAUTION. MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

Do not use when value of honeybees as pollinators is more important than insect control. Before applying warn beekeepers to locate hives beyond bee flight range until 1 week after application or to take other equally effective precautions.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

GENERAL INFORMATION:

Carbaryl 4 Oil carbaryl insecticide is a dispersion of finely ground technical carbaryl in a non-aromatic, low volatile oil. It is designed for air application as a low volume or ultra low volume spray. It may also be applied by ground mist blower or cold fogging, if diluted with diesel fuel, kerosene or #2 fuel oil.

READ THIS LABEL BEFORE USE. USE IN STRICT ACCORDANCE WITH DIRECTIONS AND CAUTIONS.

PREHARVEST AND GRAZING USE INFORMATION AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act, permit the sale of crops bearing probable carbaryl residues when this product is used in accordance with label directions. If used as directed, treated forage may be grazed or used as feed for dairy and meat animals without causing illegal residues in meat or milk. This product may be applied up to and including the day of harvest or grazing of forage crops.

MIXING AND APPLICATION

1. Carbaryl 4 Oil thickens during storage. Roll or agitate drums or recirculate product in bulk tanks before use to reduce viscosity and restore homogeneity. Carbaryl 4 Oil may be held prior to use and transferred in any materials of construction suitable for use with fuel oil, kerosene or diesel oil. Protect from water.
2. Before and after use, flush nurse tanks, pumps, lines, hoses and entire systems with diesel fuel, kerosene or #2 fuel oil until clean. Water, scale, rust and other residue must be removed from pumps, mixing and spray systems before use.
3. Carbaryl 4 Oil is not compatible with and should not be mixed with water, alcohol or aromatic solvents, but can be diluted with aliphatic oil (diesel fuel, kerosene or #2 fuel oil). Compatibility with other pesticides has not been thoroughly tested. DO NOT USE IN TANK MIX COMBINATIONS UNLESS YOUR EXPERIENCE INDICATES THAT THE MIXTURE IS EFFECTIVE AND WILL NOT RESULT IN PLANT INJURY OR MECHANICAL DIFFICULTY.
4. For best mixing when preparing diluted Carbaryl 4 Oil, add diluent oil to mix tank before adding proper volume of Carbaryl 4 Oil. Provide periodic circulation to maintain uniform suspension if diluted.
5. Calibrate equipment to deliver the desired spray volume. Flat fan nozzles may be used to apply both undiluted and diluted Carbaryl 4 Oil. Rotary atomizing and hollow cone nozzle are not recommended for applying undiluted Carbaryl 4 Oil but can be used if 1 to 1 dilution is made. Use of a high-volume 50-mesh in-line strainer is suggested. Use of screens behind nozzles is not recommended.
6. Apply by air undiluted, or diluted with kerosene, diesel fuel or #2 fuel oil. At temperatures below 50°F (10°C) dilution of 4 volumes of Carbaryl 4 Oil with 1 volume of diluent oil is recommended to assure uniform flow and spray distribution. Dilutions greater than 1 to 1 by volume are not recommended; higher dilutions will reduce residual properties. Dilute 1 to 1 by volume when applying with ground equipment.
7. Apply only when weather conditions are favorable. Wind and rising air currents may cause undesirable spray drift and reduce insect control.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

Read entire Label. Use strictly according to Label Directions and Cautions. Do not use application methods, dosages, concentrations, or frequencies not listed on labeling. Do not apply against target pests not listed on labeling. Do not mix with fertilizer.

INSECT CONTROL

The directions on this label are based on tests and field experience relating to (a) effectiveness; (b) possible injury to plants and animals; and (c) residues in food, feed, meat and milk. Follow directions for most effective use. DOSAGES LISTED REFER TO QUARTS OF CARBARYL 4 OIL PER ACRE, NOT TO VOLUME OF FINISHED SPRAY PER ACRE. Refer to Steps 4 and 6 under STORAGE AND APPLICATION FOR INSTRUCTION ON DILUTION.

CORN (field, pop) INSECT CONTROL

For corn rootworm beetles: Apply 1 quart of Carbaryl 4 Oil per acre as

needed at first silking if populations are at economic levels and/or apply later when needed to control adult population buildup to reduce larval damage to next year's crop. Do not make more than two applications.

For western bean cutworm: Apply a single application of 2 quarts of Carbaryl 4 Oil plus 2 quarts diesel fuel, kerosene or #2 fuel oil per acre when an average of 1 in 7 plants have western bean cutworm egg masses or newly hatched larvae and 90 to 100% of the tassels have emerged. Application after 100% of the silks have emerged will reduce effectiveness.

For Japanese beetle: Apply 1 quart Carbaryl 4 Oil per acre when adult beetles are present.

For grasshoppers: Apply $\frac{1}{2}$ to $1\frac{1}{2}$ quarts Carbaryl 4 Oil per acre. Lower rate is suggested for nymphs on small plants. Use 1.0 or 1.5 quarts when grasshoppers or foliage are mature and greater coverage is required.

FOREST INSECT CONTROL

For control of gypsy moth, fall and spring cankerworms, saddled prominent, forest tent caterpillar, elm spanworm, oak leafroller complex and Japanese beetle: Apply 1 quart Carbaryl 4 Oil per acre when larvae are in early instars and leaves are at least $\frac{1}{3}$ grown, or when adult Japanese beetles are present.

For spruce budworm and western spruce budworm: Apply 1 quart Carbaryl 4 Oil per acre for foliage protection. East of the Rocky Mountains apply when larvae are in third and fourth instars. In the Rocky Mountains and West of the Rocky Mountains apply when larvae are in third through fifth instars.

For Douglas-fir tussock moth: For maximum foliage protection apply 2 quarts Carbaryl 4 Oil per acre when larvae are in first and second instars. Application to later instars will provide control but with reduced foliage protection.

For population control and foliage protection of high value trees using ground mist blower application, apply 0.8 pint of a spray mixture containing equal volumes of Carbaryl 4 Oil and diesel fuel, kerosene or #2 fuel oil per 20 to 30 foot trees (0.2lb. ai/tree) when larvae are in early instars. Cover foliage thoroughly, but avoid runoff.

PASTURE, RANGELAND AND WASTELAND INSECT CONTROL

For grasshoppers: Apply $\frac{1}{2}$ to $1\frac{1}{2}$ quart of Carbaryl 4 Oil per acre. Lower rates suggested for nymphs on small plants or sparse vegetation. Use higher rate when grasshoppers are mature or vegetation is thick.

For range caterpillar: Apply $\frac{1}{2}$ to 1 quart of Carbaryl 4 Oil, per acre. Use the lower rate when larvae are in early instars and the higher rate for later instars.

For Japanese Beetle: Apply 1 quart of Carbaryl 4 Oil per acre when adult beetles are present.

**STORAGE AND
DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE DISPOSAL

Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

CONTAINER DISPOSAL

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

WARRANTY - CONDITION OF SALE:

DIRECTIONS FOR USE of the product are based on field use and tests believed reliable and should be followed carefully. It is however impossible to eliminate all risks associated with use of this product. Because such factors as weather conditions, foreign material and manner of use for application are all beyond the control of Drexel Chemical Company or the Seller of this product, such things as crop injury, ineffectiveness or other unintended consequences may result.

ALL SUCH RISKS ARE ASSUMED BY THE BUYER.

Drexel warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use. Drexel makes no other warranties, express or implied, including FITNESS OR MERCHANTABILITY. In no case shall Drexel or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. The foregoing is a condition of sale by Drexel Chemical Company and is accepted as such by the Buyer.

