

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS**

CAUTION

Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye and skin irritation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink 1 to 2 glasses of water. Call a physician and have the stomach emptied immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: This product contains xylene (petroleum distillate) and may produce hyperthermia and convulsions in serious poisoning. Atropine, aspirin and other antipyretics should be avoided.

IF INHALED: Remove the victim to fresh air. Treat the person symptomatically. Call a physician if a problem continues.

IF ON THE SKIN: Wash exposed areas with plenty of soap and water. If irritation persists, call a physician.

IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician.

ENVIRONMENTAL HAZARDS

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

FOR AGRICULTURAL USE ONLY OR ONLY
FOR SALE TO, USE, AND STORAGE BY SERVICE PERSONS

**KARATHANE
LIQUID CONCENTRATE**

AGRICULTURAL FUNGICIDE & MITICIDE

CAUTION

KEEP OUT OF REACH OF CHILDREN

Before using this product see side panel for additional precautionary statements, storage and disposal instructions, use restrictions and limit of warranty and liability statements.

ACTIVE INGREDIENTS

2,4-Dinitro 6-octyl* phenyl crotonate	35.0%**
2,6-Dinitro 4-octyl* phenyl crotonate	
Nitrooctyl* phenols (principally dinitro)	2.4%
INERT INGREDIENTS	62.6%
	100.0%

*A mixture of 1-methylheptyl, 1-ethylhexyl, and 1-propylpentyl isomers.
**Equivalent to 48% or 6 lbs. Technical Karathane.

EPA Reg. No. 707-71-AA

EPA Est. No. 707-PA-1

© Copyright 1982 Rohm and Haas Company



**ROHM
& HAAS**
PHILADELPHIA, PA 19106

NET CONTENTS **1 GALLON** (3.785 LITERS)

9180 #2

9180 #2

PHYSICAL AND CHEMICAL HAZARDS

FLAMMABLE

Do not use, pour, spill or store near heat or open flame. Do not use in the vicinity of pilot lights.

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 dispose of in a sanitary landfill, or by other approved State and local procedures.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use, storage or handling of this product in a manner other than as directed by label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. These risks include, but are not limited to, damage to plants, crops and animals to which the material is applied, failure to control pests, damage caused by drift to other plants or crops, and personal injury.

MADE IN U.S.A.

KARATHANE LIQUID CONCENTRATE

AGRICULTURAL FUNGICIDE & MITICIDE

DIRECTIONS FOR USE

**FOR AGRICULTURAL USE ONLY OR
ONLY FOR SALE TO, USE, AND
STORAGE BY SERVICE PERSONS**

Before using this product, read all precautionary statements including use precautions, storage and disposal instructions, use directions, limit of warranty and liability statements in these use directions and on the container label.

KEEP OUT OF REACH OF CHILDREN PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye and skin irritation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or spray mist.

Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink 1 to 2 glasses of water. Call a physician and have the stomach emptied immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: This product contains xylene (petroleum distillate) and may produce hyperthermia and convulsions in serious poisoning. Atropine, aspirin and other antipyretics should be avoided.

IF INHALED: Remove the victim to fresh air. Treat the person symptomatically. Call a physician if a problem continues.

IF ON THE SKIN: Wash exposed areas with plenty of soap and water. If irritation persists, call a physician.

IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician.

ENVIRONMENTAL HAZARDS

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

PHYSICAL AND CHEMICAL HAZARDS

FLAMMABLE

Do not use, pour, spill or store near heat or open flame. Do not use in the vicinity of pilot lights.

DIRECTIONS FOR USE

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

GENERAL INFORMATION

KARATHANE LIQUID CONCENTRATE is especially effective for the control of powdery mildew diseases and certain species of mites.

Directions are given for single strength sprays. KARATHANE LIQUID CONCENTRATE may also be used in concentrate ground or aerial sprays. Be sure to adjust dosage accordingly. Do not use concentrate sprays in California.

POWDERY MILDEW CONTROL: KARATHANE LIQUID CONCENTRATE is a specific fungicide especially effective for the control of powdery mildew. Recommended dosage and time of application differ with various crops.

For directions see the section under crops applicable to your area.

MITIC CONTROL: KARATHANE LIQUID CONCENTRATE is also an effective miticide and especially useful for control of mites that have become resistant to organic phosphates and other miticides. KARATHANE LIQUID CONCENTRATE is an adulticide only and possesses a very short residual, but through effective reduction of mite population it may provide economic mite control for many weeks. When used alone KARATHANE LIQUID CONCENTRATE application should be repeated in 7 to 10 days to kill adults emerging from eggs surviving the first spray. Two sequential applications so timed will reduce the population to a low level. In combination with other miticides, KARATHANE LIQUID CONCENTRATE will improve performance by giving excellent initial kill of adult mites. A program of alternating KARATHANE LIQUID CONCENTRATE with another miticide may also be used to give overall good mite control while prolonging development of resistance to the other miticides.

APPLES, PEARS — To control powdery mildew use 4 to 6 ounces KARATHANE LIQUID CONCENTRATE to 100 gallons of water, applying thorough full coverage spray at 500 to 800 gallons per acre for dilute sprays. Adjust accordingly for concentrate sprayers. Begin applications at delayed dormant to pink stage and continue in early regular spray at 7 to 14 day intervals into the cover sprays until terminal growth or midew activity is completed. At no time should applications of KARATHANE LIQUID CONCENTRATE be more than 14 days apart. Thorough coverage is necessary for midew control. When noticeable midew growth is evident, add a spreader-sticker to the spray to insure thorough wetting of midew spores and mycelium. Certain spreader-stickers will reduce the deposit of KARATHANE LIQUID CONCENTRATE on apples and pears. If a spreader sticker is to be employed with KARATHANE LIQUID CONCENTRATE, use TRITON® B 1956® at 1 to 2 ounces per 100 gallons of dilute spray.

KARATHANE LIQUID CONCENTRATE

AGRICULTURAL FUNGICIDE & MITICIDE

DIRECTIONS FOR USE

**FOR AGRICULTURAL USE ONLY OR
ONLY FOR SALE TO, USE, AND
STORAGE BY SERVICE PERSONS**

For the control of European red, clover and two spotted mites. Apply KARATHANE LIQUID CONCENTRATE at a rate of 4 to 8 oz. per 100 gallons of water, applying thorough full coverage spray at 500 to 800 gallons per acre in dilute spray. Adjust accordingly for concentrate sprayers. Make initial application on appearance of mites and repeat at 7 to 10 days. KARATHANE LIQUID CONCENTRATE is believed compatible with most of the common pesticides used on apples and pears. Do not use KARATHANE LIQUID CONCENTRATE/organic phosphate mixtures on sensitive pear varieties. Do not use more than 1 pound of 25% wettable parathion with KARATHANE LIQUID CONCENTRATE from pink through second cover, or apply in separate applications. Other phosphatic insecticides such as malathion, Guthion® demeton (Systox®) appear to be compatible with KARATHANE LIQUID CONCENTRATE at any time. Do not apply KARATHANE LIQUID CONCENTRATE when temperatures will exceed 90-95°F during the day. Do not use with oil or oil based pesticides or apply to foliage within 30 days after application of an oil spray.

To avoid residues do not use KARATHANE LIQUID CONCENTRATE within 21 days of harvest on apples and pears. Do not graze treated areas to livestock or feed cover crops grown in treated orchards to animals.

CANTALOUPE, CUCUMBERS, MELONS, PUMPKINS, SQUASH — To control powdery mildew use 3 to 4 oz. KARATHANE LIQUID CONCENTRATE in 100 gallons of water and apply 100 to 150 gallons per acre. Begin applications when mildew first appears and repeat at 7 to 10 day intervals as long as disease threatens. Three to ten applications may be required per season depending on the length of the growing season. On cucumbers and summer squash, spray a maximum of 3 to 4 times to an individual set of fruit. Do not use within 7 days of harvest. For mite control apply KARATHANE LIQUID CONCENTRATE at a rate of 4 to 8 ounces per 100 gallons of water and apply full coverage spray at 100 to 150 gallons per acre. Do not use on cantaloupes, cucumbers, melons, pumpkins, squash in California.

CITRUS — For citrus red mite control on non-bearing trees. Use 4 to 8 oz. KARATHANE LIQUID CONCENTRATE in 100 gallons of water. Use sufficient spray to wet all plant surfaces, depending on the tree size. Apply two sequential sprays; the first when adult mites begin to appear and the second 10 to 14 days after the first. Apply only to nursery or to young trees which will not bear fruit within one year. Avoid drift to bearing trees.

GRAPES — To control powdery mildew and mites use 4 to 8 ounces of KARATHANE LIQUID CONCENTRATE in 100 gallons of water and apply 200 to 300 gallons per acre depending on the size of the vines and the density of the foliage. Begin applications when mildew first appears (usually during the early stages of foliage growth) and repeat at 10 to 14 day intervals as long as disease threatens. For mite control only, make application on appearance of mites and repeat at 7 to 10 days. Two to six applications may be required per season. Do not use within 21 days of harvest. Do not use on grapes in California.

PEACHES AND APRICOTS — To control powdery mildew use 4 ounces KARATHANE LIQUID CONCENTRATE to 100 gallons of water, applying full coverage spray. Apply at pink bud, petal fall, shuck fall and early covers. Use wettable sulfur at later applications.

To control European red mite, clover mite and two-spotted mite as well as plum nursery and peach silver mite. Apply KARATHANE LIQUID CONCENTRATE at a rate of 4 oz. per 100 gallons of water, applying thorough full coverage spray at 500 to 800 gallons per acre for dilute sprays. Adjust accordingly for concentrate sprayers. Make initial application on appearance of mites and repeat at 7 to 10 days. Do not use on peaches or apricots in California.

Do not apply on peaches and apricots later than 45 days before harvest. Do not graze treated areas to livestock or feed cover crops grown in treated orchards to animals.

NURSERY STOCK (APPLES, PEACHES, CHERRIES) — To control powdery mildew, red spider mite, clover mite. Use 4 oz. per 100 gallons or 1 teaspoonful in 4 gallons. Apply when mildew first appears and repeat at 7 to 10 day intervals as necessary. For mite control only, make application on appearance of mites and repeat at 7 to 10 days. If established mildew growth is noted add two ounces TRITON® B 1956 per 100 gallons.

Do not apply to cherry trees that will bear fruit within one year of treatment.

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Pesticide, spray mixture or waste 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), puncture and then dispose of in a sanitary landfill or by other approved State and local procedures.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use, storage, handling of this product in a manner other than as directed by label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. These risks include, but are not limited to, damage to plants, crops and animals to which the material is applied, failure to control pests, damage to property and equipment, and personal injury.

OCT 1 1982

Mr. C. F. Gordon
Mohn & Haas Company
Independence Mall W.
Philadelphia, PA 19105

Gentlemen:

Subject: Karathane Liquid Concentrate
EPA Registration No. 707-71
Your Application Dated September 1, 1982

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

Sincerely yours,

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Enclosure

TS-767:Ellenberger:DCR-24750:WANG-0348C:jad:Raven:479-2013: 9/24/82