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2017 Pesticide Safety - Safety Update

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WPS REQUIREMENTS AND PESTICIDE SAFETY

UMASS PESTICIDE SAFETY TRAINING

UMASS CRANBERRY STATION

APRIL 27, 2017

NEW MDAR RULES

- MASSACHUSETTS DEPARTMENT OF AGRICULTURAL RESOURCES
 - PESTICIDE PROGRAM
- REQUIRES SIGN-IN WITH ID FOR CREDITS
- REQUIRED WARNING TO PAY ATTENTION (NEXT SLIDE)
- EACH CREDIT IS 50 CONTINUOUS MINUTES OF INFORMATION PERTINENT TO PESTICIDES
 - FOR EXAMPLE...REGULATIONS, IPM, LABELS, APPLICATION, RESISTANCE
- CAN'T SIGN PESTICIDE CREDITS TIL THE END OF THE MEETING
 - MUST BE COMPLETED WITH THE APPLICATORS INFORMATION (NAME AND LICENSE #)
 - KEEP ORIGINAL CERTIFICATE FOR PROOF IF YOU ARE AUDITED
- TRAINER (UMASS) MUST MUST PROVIDE SIGN-IN WITHIN 7 DAYS TO MDAR

Credits must be issued in a secure manner with attendees adhering to requirements of MDAR

REQUIRED WARNING!!

PESTICIDE APPLICATORS RECEIVING CREDIT MUST SIT AND BE PRESENT THROUGH THE ENTIRETY OF THE TRAINING IN ORDER TO OBTAIN THE CREDITS THAT ARE BEING OFFERED.

THE APPLICATOR MAY NOT PARTAKE IN ANY ACTIVITIES THAT WOULD DISTRACT OR OTHERWISE DRAW ATTENTION AWAY FROM THE TRAINING.

THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- TAKING OR MAKING PHONE CALLS
- TEXTING OR PLAYING ON PHONE
- TALKING OR DISTRACTING OTHERS
- BEING DISRUPTIVE

- COMING IN LATE
- LEAVING EARLY
- SLEEPING

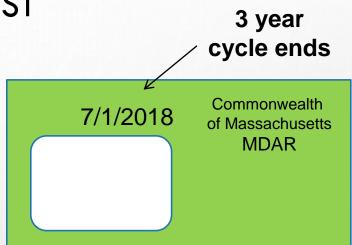
PRIVATE CERTIFICATION AUDITS ON THE INCREASE

CRANBERRIES CAT. 30

- SENT OUT ALREADY
 RETURN BY AUGUST
- OVER 1000 AUDITS, 33 IN CRANBERRY
- 3 YEAR CYCLE
 - 7/1/2014 6/30/2017
 - 7/1/2015 6/30/2018
- NEED 12 CREDITS IN THAT TIME
- MUST PRODUCE ORIGINAL DOCUMENTS

100% of the new certifications get audits, then <25% going back in time. (Heavily weighed to recent certifications)

IN CRANBERRY - 10% new, 90% over 15 years old



GOT AUDITED? NEED MORE CREDITS?

- 2017 JUNE 20 PESTICIDE RECERTIFICATION TRAINING WORKSHOPS IN MARLBOROUGH, MA
- TUESDAY, JUNE 20, 2017 7:45 AM 12:45 PM (EASTERN TIME)
- BEST WESTERN ROYAL PLAZA HOTEL

 181 BOSTON POST ROAD WEST

 MARLBOROUGH, MASSACHUSETTS 01752
- UMASS/AMHERST PESTICIDE PROGRAM. PHONE: 413-545-1044
- **DESCRIPTION** TWO WORKSHOPS ON THIS DATE, EACH WORKSHOP IS 2 CONTACT HOURS
 - MA PESTICIDE LAWS & REGULATIONS (8:00AM FOR ALL CATEGORIES OF LICENSES)
 - SPECIAL TOPICS FOR PESTICIDE APPLICATORS (10:30AM FOR ALL CATEGORIES OF LICENSES)

MDAR PESTICIDE DISPOSAL PROGRAM

- <u>WWW.MASS.GOV/AGR</u>. REGISTER IN ADVANCE BY MAY 15 DROP OFF IN SUTTON
- THE MASSACHUSETTS DEPARTMENT OF AGRICULTURAL RESOURCES (MDAR) OPENED REGISTRATION TO PESTICIDE APPLICATORS FOR THE OPPORTUNITY TO DISPOSE OF UNWANTED AND/OR UNREGISTERED PESTICIDES AT NO COST. MDAR HAD RECEIVED A GRANT AND PLACED THIS PROGRAM ON A FIRST COME FIRST SERVE BASIS. DUE TO THE HIGH DEMAND OF THE PROGRAM MDAR HAS REACHED THE FUNDING CAPACITY BASED ON FUNDING. UNFORTUNATELY YOUR REGISTRATION DID NOT REACH US IN TIME TO BE ABLE TO PARTICIPATE IN THIS PROGRAM. MDAR WILL CONTINUE TO SEEK OUT OPPORTUNITIES TO FUND SUCH EVENTS AS IT APPEARS THERE IS CONTINUOUS NEED FOR SUCH.

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BEWARE HANDLER RESTRICTIONS

- OCEANSPRAY (EXPORT PROCESSED)
 - RIMON, PRINCEP, KERB, OR QUINSTAR
 - NO USE ALLOWED
 - LORSBAN, ORTHENE
 - NO USE AFTER 6/22
 - BRAVO, EVITO
 - NO USE AFTER 7/25
 - SEVIN, BELAY
 - NO USE AFTER 8/1

- LASSONDE PAPPAS
 - RIMON, SCORPION, OBERON,
 - KERB OR DITHANE
 - NO USE ALLOWED
 - LORSBAN, ORTHENE
 - NO USE AFTER 6/22
 - SEVIN, BRAVO
 - NO USE AFTER 7/25
 - QUINSTAR
 - 100 DAY PHI AND INFORM HANDLER





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Pesticide Worker Safety

Pesticide Worker Safety Home

How EPA Protects Workers from Pesticide Risk

Recognition and Management of Pesticide Poisonings

In Case of Pesticide Poisoning

Agricultural Worker Protection Standard (WPS)

Safety Information Related to the Worker Protection Standard

How to Get Certified as a Pesticide Applicator

Pesticide Containers

Pesticide Containment Structures

Revised Certification Standards for Pesticide Applicators

Esta página web está disponible en español

EPA has finalized stronger standards for people who apply restricted use pesticides (RUPs). These revisions to the Certification of Pesticide Applicators rule will reduce the likelihood of harm from the misapplication of toxic pesticides. Pesticide use will be safer with increased supervision and oversight. These revisions will help ensure that RUPs are used safely.

Read the official version of the final rule in the Federal Register.

On this page:

- What are the major changes to the Certification of Pesticide **Applicators Rule?**
- When will these changes take place?
- Who does this rule affect, and how?

Related Information

- See the Press Release
- Fact sheet on the Certification of Pesticide Applicators rule revision
- Current Certification of Pesticide Applicators rule vs. Revised rule
- Learn more about certification of pesticide applicators
- Current standards for Certification of Pesticide Applicators



EPA HAS REVISED CERTIFICATION STANDARDS FOR PESTICIDE APPLICATORS

- RESTRICTED USE COMPOUNDS
 - FEDERALLY RESTRICTED DIAZINON AND LORSBAN (AND VAPAM)
 - STATE RESTRICTED BRAVO, ACTARA, INTREPID, SCORPION AND WEEDAR 64
- STRICTER RULES REGARDING "DIRECT SUPERVISION" OF LICENSED APPLICATORS WHO USE RESTRICTED USE PESTICIDES
- LIKELY MA PESTICIDE EXAMS WILL BE UPDATED!

EPA HAS REVISED CERTIFICATION STANDARDS FOR PESTICIDE APPLICATORS

- AGE LIMIT 18 YEARS FIRST-TIME EVER MINIMUM AGE REQUIREMENT: CHILDREN UNDER 18 ARE PROHIBITED FROM HANDLING PESTICIDES - WITH AN EXEMPTION FOR FAMILY FARMS!
- FAMILY INCLUDES SPOUSE, PARENTS, FOSTER PARENTS, CHILDREN, STEPCHILDREN, FOSTER CHILDREN, BROTHERS + SISTERS!
- NOW IN 2018 INCLUDES IN-LAWS, GRANDPARENTS, GRANDCHILDREN, AUNTS + UNCLES, NIECES + NEPHEWS, AND 1ST COUSINS!



- EPA MADE CHANGES TO WPS
- CHANGES EFFECTIVE JANUARY 2, 2017
- EDUCATION NOW, COMPLIANCE ASSISTANCE NOW
- WORKER PROTECTION STANDARD IS TO PROTECT WORKERS AND REDUCE PESTICIDE POISONING

WHO DOES WPS APPLY TO?

ANY ONE YOU HIRE WHO STEPS
ON BOG ONCE A PESTICIDE
APPLICATION HAS BEEN APPLIED
AND FOR 30 DAYS AFTER REI IS UP.

• DO NOT NEED TRAINING IF YOU HAVE A PESTICIDE LICENSE!

WORKER

- PULLING WEEDS
- SCOUTING
- PLANTING
- HARVESTING
- HANDLER
- APPLYING PESTICIDE
- HANDLING CHEMIGATION HEADS
- CLEANING OR REPAIRING SPRAY EQUIPMENT
- MIX LOAD OR TRANSFER PESTICIDE
- HANDLE PESTICIDE CONTAINERS



- TRAINING EVERYYEAR
 - NOT EVERY FIVEYEARS
- EXPANDED TRAINING INCLUDES INSTRUCTIONS TO REDUCE TAKE-HOME EXPOSURE FROM
 PESTICIDES ON WORK CLOTHING AND OTHER SAFETY TOPICS.
- WAITING ON NEW TRAINING MANUALS!
- NO GRACE PERIOD OF FIVE DAYS
 - TRAINING MUST BE BEFORE WORKER ENTERS AREA
 - ANY TREATED AREA WITH PESTICIDE IN LAST 30 DAYS
- MUST TRAIN BEFORE HERBICIDES GO ON!
- HARVEST OK IF NO APPLICATIONS IN 30 DAYS!

WPS HANDLER TRAININGS 2017





- **♦**APRIL 26
- **♦**MAY 31
- **♦JUNE 28**

April 28 8 AM

- SEND ANY WORKERS, WEEDERS, SCOUTS, AND MECHANICS. TRAINING ONLY GOOD FOR 1 YEAR.
- ◆\$5 COST



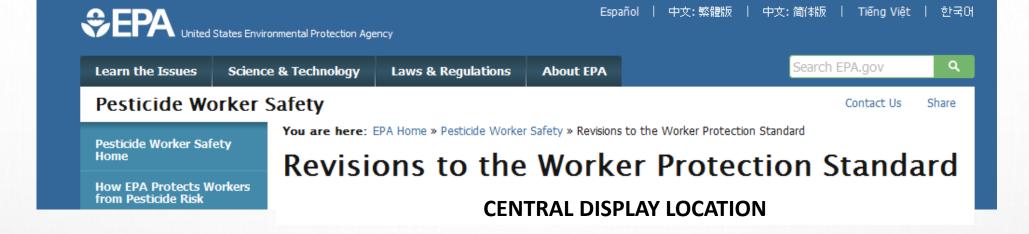


- APPLICATION INFORMATION AT CENTRAL LOCATION
- A CENTRAL NOTIFICATION AREA SHOULD BE AN AREA THAT THE WORKERS/HANDLERS GO TO FIRST THING IN THE AM BEFORE WORKING.
- APPLICATIONS MUST BE POSTED.

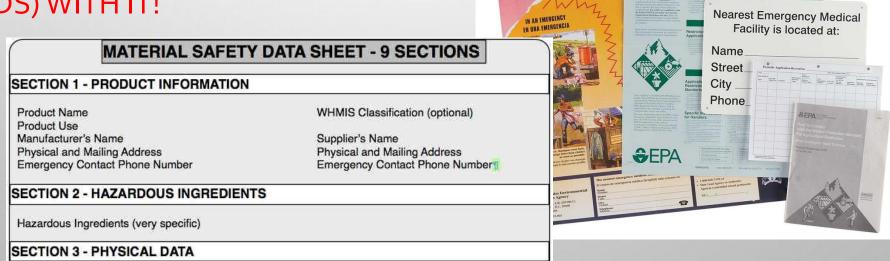


- EPA WPS SAFETY POSTER
 - NAME, ADDRESS, AND TELEPHONE NUMBER OF THE NEAREST EMERGENCY MEDICAL FACILITY
- EACH PESTICIDE APPLICATION [FROM BEFORE EACH APPLICATION BEGINS UNTIL 30 DAYS AFTER THE REI]:
 - PRODUCT NAME, EPA REGISTRATION NUMBER AND ACTIVE INGREDIENT(S)
 - LOCATION AND DESCRIPTION OF TREATED AREA, MAP
 - TIME AND DATE OF APPLICATION, AND REI





- APPLICATION INFORMATION AT CENTRAL LOCATION
 - 2018 MUST ALSO INCLUDE AN SDS (MSDS) WITH IT!



PROTECT

YOURSELF FROM PESTICIDES PROTEJASE NE LOS

PESTICIDAS



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Pesticide Worker Safety

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Pesticide Worker Safety Home

Learn the Issues

How EPA Protects Workers from Pesticide Risk

Revisions to the Worker Protection Standard DECONTAMINATION

OLD WPS

RUNNING WATER

- SOAP
- SINGLE USE TOWELS
- CHANGE OF CLOTHING**
- EYEWASH**



 IF MORE THAN ¼ MILE FROM ANY WORKING AREA, PORTABLE DECONTAMINATION IS NEEDED

NEW WPS

IN ADDITION TO THE OLD REQUIREMENTS:

- ADDITIONAL SAFETY POSTER MUST BE POSTED
- MUST HAVE ENOUGH WATER FOR:
 - 1 GALLON PER WORKER
 - 3 GALLON PER HANDLER
- MUST HAVE ENOUGH WATER FOR 15 MIN EYEFLUSH IF PRODUCT USED REQUIRES EYE PROTECTION AT MIX/LOAD SITES
 - 0.4 GALLONS PER MINUTE FOR 15 MINUTE OR
 - 6 GALLONS AT A GENTLE FLOW FOR 15 MIN



Provide water for decontamination Requiring water available 1 gallon per worker, 3 gallons per handler

Eyewash water available for handlers 6 gallons of water available at mix/load sites if product requires eye protection



- Diazinon
- Bravo <u>Chlorothalonils</u>
 - Bravo Ultrex
 - Bravo Weatherstik
 - Chloronil 720, Initiate 720
- Champ, Badge coppers
- Pyramite/Nexter Pyridaben
- 2,4-D granular, weedar 64
- Rimon Novaluron

Provide decontamination water
1 gallon per worker
3 gallons per handler

All others
require 6 gallons
of water at
mix/load sites

NOTIFICATION FOR 48 HOUR+

- EXPANDED MANDATORY POSTING OF NO-ENTRY SIGNS FOR THE MOST HAZARDOUS PESTICIDES.
- THE SIGNS PROHIBIT ENTRY INTO PESTICIDE-TREATED FIELDS UNTIL RESIDUES DECLINE TO A SAFE LEVEL.
- IF REI IS 48 HOURS OR GREATER, REQUIRES SIGN POSTING
 - DIAZINON
 - BADGE, CHAMP, KOCIDE, NU-COP COPPERS
 - RIDOMIL, ULTRA FLOURISH MEFENOXAMS
 - WEEDAR 64, 2-4 D'S

NEW WPS PPE IS FOCUSED ON RESPIRATORS

If the label of the pesticide being used requires a respirator....

- MEDICAL EVALUATION
- MEDICAL QUESTIONNAIRE

- FIT TESTING
 - FITTEST RECORD
- RESPIRATOR TRAINING



CRANBERRY COMPOUNDS REQUIRING RESPIRATORS

DUST/MIST FILTERING DUSTS, POWDERS, MISTS,
 AND SPRAYS. TC-21C,
 N95

Sevin Lorsban
Nexter Ferbam
Bravo Ultrex
Manzate Flowable

- VAPOR REMOVING GASES AND VAPORS.
 - TC-23C CARTRIDGE FOR ORGANIC VAPORS + PREFILTER
 - TC-14G CANISTER FOR ESTICIDES/ORGANIC VAPORS

Diazinon
Imidan and
all Echo
formulations





CRANBERRY COMPOUNDS REQUIRING RESPIRATORS

DUSITE, TESTERS, MISTS, AND SPRAYS. TC-21C,
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RESPIRATOR

• VATRAININGING -GASES AND VAPORS.

MEDICAL RICHARD FOR + EVALUATION

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Diazinon
Imidan and
all Echo
formulations







APPLICATOR EXCLUSION ZONE (AEZ)

- NO ONE IN AREA WHEN APPLYING PESTICIDE OR THE APPLICATION SHOULD STOP!
- 25 FEET FROM EQUIPMENT ABSOLUTELY
- TO PROTECT WORKERS AND OTHERS FROM EXPOSURE
 TO PESTICIDE OVERSPRAY

APPLICATOR EXCLUSION ZONE (AEZ)

IN EFFECT IN 2018!!!!

- 25 AROUND THE APPLICATION EQUIPMENT WHERE Entire
 NO ONE IS ALLOWED IN DURING THE APPLICATION Chemigation

 Inc.

 | OWED | Inc. 25 AROUND THE APPLICATION EQUIPMENT WHERE
- MOVING ZONE (IF MIST BLOWER)
- EXTENDS BEYOND THE BOUNDARIES OF THE FARM AND BEYOND FARM EMPLOYEES
- IF APPLICATOR SEES SOMEONE WITHIN THE AEZ, APPLICATOR MUST SUSPEND APPLICATION.

LABEL REVIEW

- ALL THE INFO IS ON THE LABEL
- DON'T BE SCARED OF LABELS
- THE BEST PLACE TO GET INFO ABOUT A PESTICIDE
- FIRST FEW BOXES HAVE MAIN INFO
 - REI, PHI, PPE
 - BEE TOX

LABEL REVIEW

- BRAND NAME, INGREDIENTS AND TYPE OF PESTICIDE
- SIGNAL WORDS AND SYMBOLS
 - DANGER
 - WARNING
 - CAUTION
- STATEMENT OF PRACTICAL TREATMENT

AND PRECAUTIONARY STATEMENT

- PARTS OF THE BODY TO PROTECT
- FIRST AID SECTION
- DIRECTIONS FOR USE
 - STORAGE, DISPOSAL
 - MIXING, LOADING AND APPLICATION
- AGRICULTURAL USE REQUIREMENTS
 - REI, PPE



Dow AgroSciences





Brand NameIngredients

Type of Pesticide

FUNGICIDE

[®]Trademark of The Dow Chemical Company (*Dow") or an affiliated company of Bow

Active Ingredients	
mancozeb†: A coordination product of zinc ion	1
and manganese ethylene bisdithiocarbamate	÷37.0%
In which the ingredients are:	
Manganese++	7.4%
Zinc++	0.9%
Ethylene bisdithiocarbamate	
ion (C ₄ H ₈ N ₂ S ₄) Other Ingredients	28.7%
Other Ingredients	63.0%

FUNGICIDE

SHAKE WELL BEFORE USE: Grasp container by handle and mix contents with a twisting motion followed by inverting. Repeat this action 5 to 10 times to ensure product is completely resuspended.

† Equivalent to 4 lb active ingredient per gallon

Group

EPA Reg. No. 62719-396

Personal Protective Equipment (PPE)

For guidance on materials that are chemical resistant to this product, follow the instructions for category **A** on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear:

- long-sleeved shirt
- long pants
- chemical-resistant gloves made of any waterproof material (except pilots, groundboom applicators, airblast applicators and seed-treatment handlers who are bagging treated seed or sewing bags containing treated seed)
- shoes and socks

For Lettuce (leaf and head) and Peppers

Aerial application of Dithane F-45® Rainshield® on lettuce (leaf and head) and peppers requires that occupational handlers performing mixing/loading operations observe the additional mitigation measures of wearing a particulate respirator with an N, R or P filter, NIOSH approval prefix TC 84-A.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

Environmental Hazards

This pesticide is toxic to aquatic organisms. Drift and run off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.



Dow AgroSciences

Dithane F-45°



EPA#

PPE and

precautionary statement

FUNGICIDE

[®]Trademark of The Dow Chemical Company (*Dow") or an affiliated company of Dow

Group	M3	FUNGICIDE
Ethylene bisdithiocarbamate ion (C ₄ H ₈ N ₂ S ₄)		SHAKE WELL BEFORE USE: Grasp container by handle and mix contents with a twisting motion followed by inverting. Repeat this action 5 to 10 times to ensure product is completely resuspended.
Other Ingredients	63.0%	

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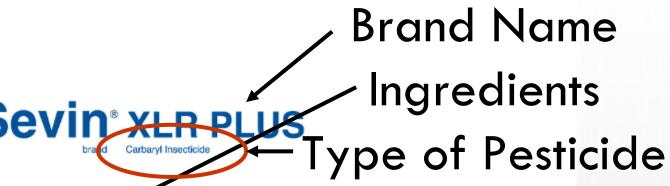
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Intended for Agricultural or Commercial Use

ACTIVE INGREDIENTS:

Carbaryl (1-naphthyl N-methylcarbamate) 44.1% by Wt.
INERT INGREDIENTS: 55.9% by Wt.

(Contains 4 pounds Carbaryl per Gallon)

KEEP OUT OF REACH OF CHILDREN CAUTION

Signal Word

For TRANSPORTATION Emergencies ONLY Call 24 Hours A Day (800) 424-9300 (CHEMTREC)

FIRST AID

Carbaryl is an N-Methyl Carbamate Insecticide.

Signal Word

IF SWALLOWED:	Immediately call a poison control center or doctor for treatment advice.
	Do not induce vomiting unless told to do so by a poison control center or doctor.
	Have person sip a glass of water if able to swallow.
	Do not give anything by mouth to an unconscious person.
IF ON SKIN OR	Take off contaminated clothing.
CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.
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 IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes.
	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a noisean control contex or dector for treatment advice

Danger Warning Caution



EPA#

CAUTION

For TRANSPORTATION Emergencies ONLY Call 24 Hours A Day (890) 424-9300 (CHEMTREC)

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	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 IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes.
	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
	Call a poison control center or doctor for treatment advice.
	For MEDICAL Forester Coll 24 House A Doug 4 OCC 274 4075

For MEDICAL Emergencies Call 24 Hours A Day 1-866-374-1975.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: Carbaryl contains an N-methyl carbamate that inhibits cholinesterase. Drugs like 2-Pam (pyridine-2-aldoxime methiodide) are not recommended. To aid in the confirmation of diagnosis, urine samples should be obtained within 24 hours of exposure and immediately froze. Analysis will be arranged by Tessenderlo Kerley, Inc. Consultation on therapy can be obtained at all hours by calling the appropriate emergency number 1-866-374-1975 (U.S.A.)

E.P.A Reg. No. 61842-37

E.P.A. Est. No. 264-MO-02



Page 2

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if swallowed, absorbed through the skin, or inhaled. Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

OVEREXPOSURE MAY CAUSE: Salivation, watery eyes, pinpoint eye pupils, blurred vision, muscle tremors, difficult breathing, excessive sweating, abdominal cramps, nausea, vomiting, diarrhea, weakness, headache. IN SEVERE CASES CONVULSION, UNCONSCIOUSNESS AND RESPIRATORY FAILURE MAY OCCUR. SIGNS AND SYMPTOMS OCCUR RAPIDLY FOLLOWING OVEREXPOSURE TO THIS PRODUCT.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Handlers applying with open cab airblast equipment at application rates equal to or greater than 5 quarts of SEVIN® brand XLR PLUS Carbaryl Insecticide per acre must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear, and
- NIOSH-approved dust/mist filtering respirator with NIOSH/MSHA approval number prefix TC-21C or NIOSH-approved respirator with any N, R, P or HE filter.

All other mixers, loaders, applicators, and handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves, and
- Chemical-resistant apron, when mixing, loading, or cleaning up spills or equipment.

In addition, mixers and loaders supporting aerial or chemigation applications must wear:

- A NIOSH-approved dust/mist filtering respirator with NIOSH/MSHA approval number prefix TC-21C or
- A NIOSH-approved respirator with any N, R, P or HE filter.

PPE and

precautionary statement







AGRICULTURAL USE REQUIREMENTS

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the Restricted-entry interval (REI). The REI for carbaryl is 12 hours unless otherwise specified in the directions for use associated with each crop.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls over short-sleeve shirt and short-pants,
- Chemical-resistant footwear plus socks,
- Chemical-resistant gloves made of any waterproof material, and
- · Chemical-resistant headgear if overhead exposure.

When the Restricted-Entry Interval for a crop is 7 days or longer, you must by posting warning signs at entrances to treated area.

SEVIN XLR 12 HRS

• DITHANE F-45 24 HRS

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

CHECK ON THE LABEL

- FIND CRANBERRY
- SPECIFIC TARGET
- CHEMIGATION
- CAUTIONS



- SUPPLEMENTAL LABEL
- CHART BOOK
- NEWSLETTER
- CUTWORMS AND WINTER MOTH ARE NOT LISTED ON AVAUNT OR DIAZ, BUT FIFRA 2EE REC IN CHART BOOK
- NO LABELS HAVE SCALE ON IT!
 - NEED A NEWSLETTER WITH RECOMMENDATION
 - OR LETTER FROM STATION



HOW TO KEEP SAFE – REDUCE YOUR RISK!!

•READ THE LABEL

KNOW YOURPRODUCTS

USECOMMONSENSE

FOLLOWSAFETYPRACTICES

- WEAR YOUR PPE,AT LEAST WHATTHE LABEL SAYS
- •DON'T BE LAZY

METHODS OF EXPOSURE

•DERMA

- MOST COMMON **EXPOSURE**
- RINSE WITH WATER
- REMOVE CONTAMINATED CLOTHING
- WASH WITH LOTS OF SOAP AND WATER

ORAL

- RINSE MOUTH WITH WATER
- DO NOT INDUCE VOMITING IF...
 - CORROSIVE PESTICIDE
 - VICTIM IS UNCONSCIOUS
 - HAVING CONVULSIONS
 - PETROLEUM BASED PRODUCT
 - LABEL SPECIFIES NOT TO INDUCE VOMITING











PESTICIDES REMOVED FROM THEIR ORIGINAL **CONTAINERS ARE THE** HIGHEST CAUSE OF PESTICIDE POISONINGS IN ADULTS AND CHILDREN!

METHODS OF EXPOSURE

- INHALATION
 - REMOVE TO FRESH AIR
 - LOOSEN TIGHT CLOTHING
 - KEEP AIR PASSAGES CLEAR
 - PERFORM ARTIFICIAL
 RESPIRATION IF NECESSARY

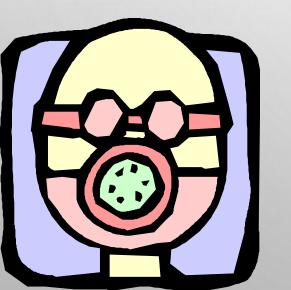


- WASH EYE WITH A
 GENTLE STREAM OF
 CLEAN WATER FOR
 15+ MINUTES
- GET MEDICAL

 ATTENTION IF THERE IS

 PAIN OR REDDENING

 OF THE EYE



LABELS SAY...

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 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice

Wear at least the PPE that is recommended

Use common sense!!

PERSONAL PROTECTIVE EQUIPMENT

PPE...

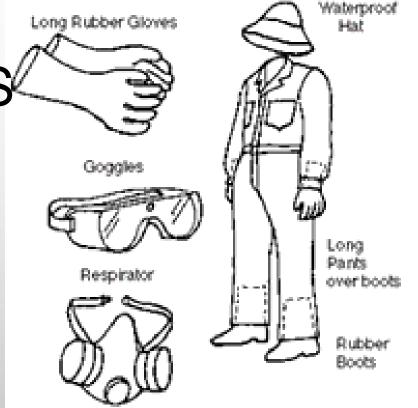
THE BEST WAY TO REDUCE EXPOSURE AND REDUCE YOUR RISK!

PERSONAL PROTECTION EQUIPMENT

• COVERALLS

GLOVES

•BOOTS



• EYEWEAR

• RESPIRATOR

APRON

• HAT

ALL PESTICIDES REQUIRE...

- LONG-SLEEVED SHIRT AND PANTS
- SHOES AND SOCKS
- CHEMICAL RESISTANT GLOVES

When handling the concentrate of DIAZINON OR LORSBAN

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves
- Chemical resistant apron
- Chemical resistant footwear and socks
- A NIOSH approved pesticide respirator



PERSONAL PROTECTIVE EQUIPMENT WORKER PROTECTION REGULATIONS...

MUST BE PROVIDED BY EMPLOYER

"COMPANIES ARE REQUIRED TO MAKE AVAILABLE TO ALL WORKERS WHATEVER PROTECTIVE EQUIPMENT IS REQUIRED FOR HANDLING THE CHEMICALS THEY USE"

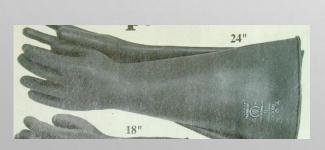
- PPE SHOULD BE IDENTIFIED
- TRAINING SHOULD BE PROVIDED
- COMPANY SHOULD IMPLEMENT AND ENFORCE PPE PROGRAM

GLOVES



Barrier laminate

- Chemically Resistant
- Wash the gloves on your hands
- Wash your hands
- If you plan to use again wash in bucket of heavy-duty detergent solution right away



Natural rubber

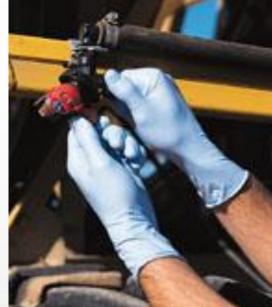


Neoprene



Thicker Nitrile (

Item No. 7270



Disposable Nitrile gloves

CHEMICAL RESISTANT FOOTWEAR

- SHOES
 - SNEAKERS
 - LEATHER
 - CANVAS
 - FABRIC
 - SANDALS

Chemical Resistant Shoes
Chemical Resistant Boots
Chemical Resistant
Shoe Covering



EYEWEAR

• PROTECTIVE EYEWEAR

- SHIELDED SAFETY GLASSES
- FACE SHIELD
- GOGGLES
- FULL FACE STYLE RESPIRATOR





SAMPLE ORAL TOXICITY VALUES

FOR COMMONLY-USED CRANBERRY INSECTICIT I

CHLORANTRANILIPRILE (ALTACOR)

I OK CON	////OTALI-03	Denger Denger
PESTICIDE	(PRODUCT)	ACUTE ORAL LD ₅₀ (MG/KG - MALE RAT) Danger 0-50
CHLORPYRIFOS	(LORSBAN)	150 382 500 776
PHOSMET	(IMIDAN)	275 II
DIAZINON	(DIAZINON)	350 787 1600 Warning
CARBARYL	(SEVIN)	406 699 699 50-500
ACEPHATE	(ORTHENE)	688 945 1030
IMIDACLOPRID	(ADMIRE)	609 4690 4870 III A TITE
ACETAMIPRID	(ASSAIL)	886 Caution ACUTE
THIAMETHOXAM	(ACTARA)	1563 500-5,000 TOXICITY
PYRIDABEN	(NEXTER)	1930
CLOTHIANIDIN	(BELAY)	3044 IV
INDOXACARB	(AVAUNT)	1867 3619 Caution
METHOXYFENOXI	DE (INTREPID)	> 5000
SPINETORAM	(DELEGATE)	> 5000

> 5000

ORGANOPHOSPHATES (OP)

- WIDESPREAD USE AND HIGH TOXICITY
- INTERFERES WITH IMPORTANT NERVOUS SYSTEM ENZYME, CHOLINESTERASE
- CHOLINESTERASE INHIBITORS THE CHOLINESTERASE IS NOT AVAILABLE TO HELP BREAK DOWN THE ACETYLCHOLINE AND THE NEUROTRANSMITTERS CONTINUE TO FIRE
- NERVES CONTINUOUSLY SEND MESSAGES TO THE MUSCLES
- CAUSING TWITCHING, CONVULSIONS, SEIZURES AND DEATH
- OVERSTIMULATION OF THE NERVOUS SYSTEM

PESTICIDES ACT AS NEUROTOXINS

