UC Ag Experts Talk about Label Reading



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Reading Pesticide Labels for Making Safe Applications

• What is a pesticide label

UC

- What important information you can expect to find on labels and where
- What is the difference between a label and a Safety Data Sheet (SDS)
- Where you are required to keep the labels
- What are some ways we are different in California
- Resources for you

What is a Pesticide Label

- Complex legal document
- Detailed safety instructions
- Detailed use instructions



What is a Pesticide Label



When to Read the Label

• Before buying

UC + IPM

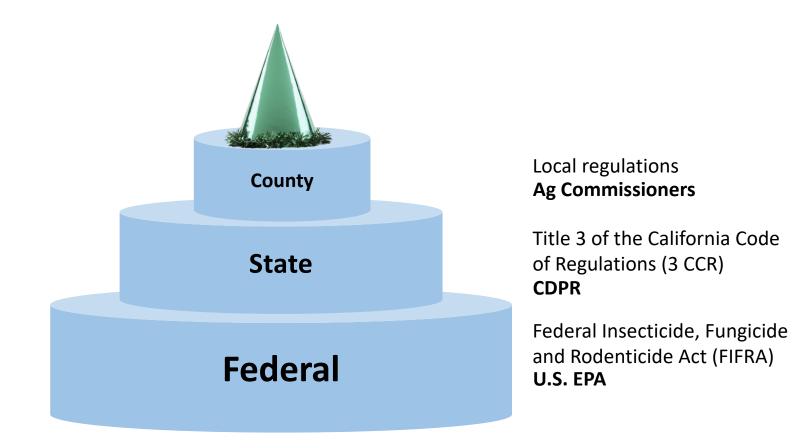
- Before mixing
- Before loading
- Before applying
- When storing
- When transporting
- Before transporting





The Label is the Law

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



- What information do you usually find on pesticide labels?
- What information is required to be on pesticide labels?

UC

• **Restricted Use Pesticide Statement**. Pesticides are classified as either general-use or restricted-use. Pesticides without this statement are general-use, except where special state restrictions apply.

RESTRICTED USE PESTICIDE DUE TO ACTUST FOR RETAL SALE TO AND USE ONLY BY CERTIFICATION AND ONLY FOR THOSE USES COVERED BY THE CERTIFICATION'S CERTIFICATION.		RESTRICTED USE PESTICIDE DUE TO ACUTE TOXICITY FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND	
Knock'em down 3SL Herbicke Byrokit/M Aveed, gas, and harvest ad desiccan/ deblaret herbicko Rougedients: Paragast dichote treachiorisighthaloritiel diversity of the second second treachiorisighthaloritiel diversity of the second second second second for the ingerefients: 5/5 IBA4.1011	a paragraphic attem par de di de divide de attemption este and stemeth (ode)t. Source Par attemption of the section of the	ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.	
Total:	5 gallons 02016 Toxiik, LLC, YourTown, YourState, 01234 PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals	RESTRICTED USE PESTICIDE	
If swallowed: - Call a poison control center or doctor IMMEDIATELY for treatment advice.	DANGER/PELIGRO	(GROUND AND SURFACE WATER CONCERNS)	
 SPEED IS ESSENTIAL. Immediate medical attention is required. If available, give an absorbent such as activated charcoal, bentonite, or Fuller's Earth. 	POISON/VENENO	FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT	
 Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. 	May be fatal if swallowed. Fatal if inhaled. Corrosive. Causes irreversible eye damage. Wear protective eyewear. Do not breathe spray mist. Wear	SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.	
 Do not give anything by mouth to an unconscious person. 	a dust/mist respirator. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin. Prolonged or frequently	THIS PRODUCT IS A RESTRICTED-USE HERBICIDE DUE TO GROUND AND SURFACE WATER CONCERNS, USERS MUST	
Move person to fresh air.	repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating,	READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE	
 The odor of this product is from the stanching agent, which has been added, not from the paraguat. 	drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.	POTENTIAL FOR ATRAZINE TO REACH GROUND AND SUBFACE WATER.	
If person is not breathing, call 911 or an ambulance. Call a poison control center or doctor for further treatment advice.	IMPORTANT: Inhalation is an unlikely route of exposure due to low vapor		
If in eyes:	pressure and large spray droplet size, but mucosal irritation or nose bleeds may occur. Prolonged contact with this concentrated product	For Ground Application Only	
 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 	can irritate your skin. Personal Protective Equipment (PPE) Applicators and other		
rinsing eye. • Call a poison control center or doctor for treatment advice.	handlers (other than Mixers and Loaders) must wear:		
If on skin or clothing: • Take off contaminated clothing.	Long-sleeve shirt and long pants Shoes plus socks	syngenta.	
 MMEDIATELY wash with scap and water and rinse for 15-20 minutes. Prolonged contact will cause severe irritation. Contact with irritated skin or a 	Protective eyewear		
 GET MEDICAL ATTENTION. Call a poison control center or doctor for 	Chemical-resistant gloves - Category A (e.g. barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene,	A Prevengence Herbicske for Control of Annual Grass and Broaddawt Weeks Iin Flaid Com, Fleid Production Seed Com, Fleid Siage Com, Seeker Com, Yallen Wepporn,	
treatment advice.	polyvinyl chloride (PVC), or Viton*)	and Grain Sorghum	
NOTE TO PHYSICIAN: Administer either activated charcoal (100g for adults or 2g/kg body weight in	 A dust/mist NIOSH-approved respirator with any N, R, P, or HE filter. The respirator should have a NIOSH approval number prefix TC-84A. 	S-Metalathiar (1543 No. 19720-1-20)	
children) or Fuller's Earth (15% solution; 1 liter for adults or 15ml/kg body weight in children). NOTE: The use of gastric lavage without administration of an adsorbent	Mixers and Loaders must wear:	Arstrin Filiad Compandi:	
has not shown any clinical benefit. Do not use supplemental oxygen. Eye splashes from concentrated material should be treated by an eye specialist after initial	Long-sleeve shirt and long pants	Other Ingradiants: 0.0.146	
treatment. With the possibility of late onset correal ulceration, it is advised that patients with paraquat eye injuries be examined by an eye specialist the day after	Shoes plus socks A dust/mist NIOSH-approved respirator with any N, R, P, or HE filter.	*Active ingradients or or galaxies: S-installation 2-49 pounds, Metorinion 0-249 pounds, and Amorine 10:035 pound.	
first presentation. Use treatment that is appropriate for chemical burns, Intact skin is an effective barrier to paraquat however contact with irritated or cut skin or	The respirator should have a NIOSH approval number prefix TC-84A.	KEEP OUT OF REACH OF CHILDREN.	
repeated contact with intact skin may result in poisoning.	 Chemical-resistant gloves - Category A (e.g. barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene. 	CAUTOIN Section 2017 A section 2017	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	polyvinyl chloride (PVC), or Viton)	stere addroute preductionally interference and encode books.	
HOT LINE NUMBER: For 24-Hour Medical Emergency Assistance (Human or	Chemical-resistant apron Face shield	EPA Reg. No. 100-1442 EPA Est. 100-14-001 2.5 gallons	
Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-000-0000	tace shield	SCP1442A-L1B 0414 Z-J.5 GGIUTIS	

• **Brand Name**. A brand name is the name the manufacturer gives to the product and is used for all advertising.





• **Ingredients**. Pesticide labels list the percentage of active and other ingredients by weight.



Active Ingredients:

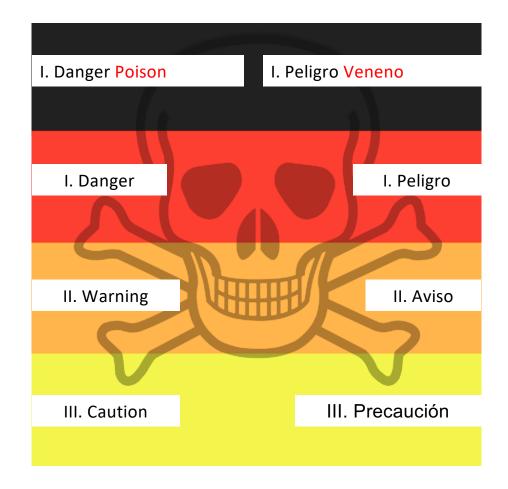
Chlorothalonil (tetrachloroisophthalonitrile)*

• Keep Out of Reach of Children and Signal Word. Pesticide labels list the percentage of active and other ingredients by weight.

RESERVICED USE DESTICION DUE to ACUTE TOXICITU FOR RETAIL SALE TO AND USE ONLY BY CERTIFICE APPLICATIONS ON REPROVISE VARIABILISTICATION AND ONLY FOR RESULTING USES CONTRED BY THE CERTIFICE APPLICATIONS CERTIFICATION.					
Knock 'em down 3SL Herbicide By Toxik' ^{IM} A vered, gras, and harvest ald desiccant/ defoilant thericide. Active Ingredients: Paraquat dichoride textexcholosicgethabolnife]	Group 22 Water Soluble Liq Contains: 3.0 pounds p galon, cortains emetis and dye EPA Reg. No. 000-00 Est. 000-VX-000 SCP 1364-L1 0411 34 Net Contents 2.5 g	araquat cation per of dichloride salt per c and stench (odor), IOEPA 3162	KEEP OUT OF REACH OF CHILDREN. DANGER/PELIGRO SUSTON/VENENO Susten or eindende Leitgart, hoogna a slajver para ger la englage a vander ei dediel (fly oo on understand helds, fild someose to explain to you in detail 20216 Teikt, LLC Nur/Term, Nursitate, e1214		
IRST AID					
INSTAID Contains Paraguat, a Bipyridylium Heri	bicide		ARY STATEMENTS ans and Domestic Animals		
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NOTE TO PHYSICIAN: INTERNET WITH AND ADDITIONAL TO THE TABLE THE ADDITIONAL TO THE	et Similikig body weight in stration of an adsorbent tral oxygen. Eye splashes pecialist after initial rition, it is advised that especialist after duy after emical burns. Intact skin ritited or cut skin or ng a polison control Assistance (Human or	The respirator sl Mixers and Loader - Long-sleeve shii - Shoes plus sock - A dust/mist NIO The respirator sl - Chemical-resista rubber, nitrile ru	t and long pants 5 SH-approved respirator with any N, R, P, or HE filter. Louid have a NIGOH approval number prefix TC-84A. Int gloves – Category A (e.g. barrier laminate, butyl baber, neoprine rubber, natural rubber, polyethylene, & (PVC), or Vitor.		



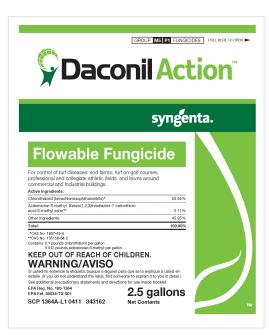




• First Aid. This statement provides emergency information and tells when to seek medical attention.

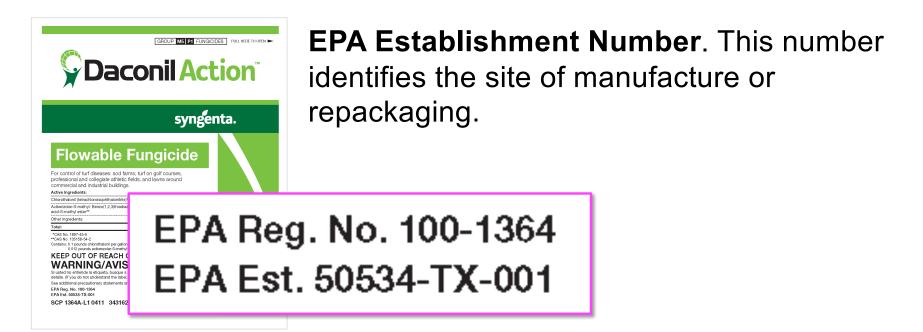
	ETOXICITY	If swallowed: Call a poison control center or doctor IMMEDIATELY for trea SPEED IS ESSENTIAL. Immediate medical attention is requir give an absorbent such as activated charcoal, bentonite,		
FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.		 Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison con 		FIRST AID
defoliant herbicide. gallon. Contains eme Active Ingredients: and dye Paramuat dichloride EPA Reg. No. 0004	quid pundat tation per stic and stench (odor). OF CHILDREN. DANGER/PELIGRO POSION/VENERO	 Do not give anything by mouth to an unconscious persor If inhaled: Move person to fresh air. The odor of this product is from the stanching agent, whi not from the paraquat. 	If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferabl mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.
Uterschlorosiophhalonitrile) 43.2% Other Ingredients: 56.8% Total: 100.00% FIRST AID	not understand the label, find someone to explain it to you in detal.) gallons 0:2016 Toxik, LLC, YourTown, YourState, 01234	If person is not breathing, call 911 or an ambulance. Call a poison control center or doctor for further treatmen If in eyes: Hold eye open and rinse slowly and gently with water for	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.
Contains Paraquat, a Bipyridyllum Herbicide If wallowed: - Gill a poison control center or doctor IMAEDATLY for treatment advice. - SPEID 5 SISNITAL, Immediate medical attention is required. If available, uje an absorber sub an activated duracub lettoritie, or fully's fant. - New person sign a glass of water? Jable to swallow. - Do not induce meminy unless skill do als or y apoison control center or doctor.	PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals DANGER/PELIGRO POIS ON/VENENO May be fait af shared composed from the state of the shared state of the folded control the state state state of adultation engenesis. Do not honder a some the adultation engenesis. Do not get in eye of an officing Humal &	Remove contact lenses, if present, after the first 5 minute rinsing eye. • Call a poison control center or doctor for treatment advic If on skin or clothing: • Take off contaminated clothing.	If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Do not give anything by mouth to an unconscious person. If inhalded: Nove person to fielsh air. The odd or this product is from the stanching agent, which has been added, not from the paragat. If person is not branking, call 911 or an ambulance.	absorbed through skin. Avoid contact with skin. Photograph of requery repeated skin contact may cause allering exections in some functionals. Wash throughly with scap and water after handling and before eating, dinking, chewing gun, using babacco or using the toller. Pernove and wash contaminated clothing before rece.	 IMMEDIATELY wash with soap and water and rinse for 15- Prolonged contact will cause severe initiation. Contact wi cut or repeated contact with intact skin may result in pois GET MEDICAL ATTENTION. Call a poison control center or treatment advice. 	Persons sufferin topical or oral s	NOTE TO PHYSICIAN ng with temporary allergic skin reactions may respond to treatment with oral antihistamines and steroids.
Call a poison control center or doctor for further treatment advice. If in eyes: Hidle ye open and rinse slowly and gently with water for 15-20 minutes. Remove contact levices, if present, after the first 5 minutes, then continue	IMPORTIANT: Inhalation is an unlikely route of exposure due to low vapor pressure and large spray droplet size, but mucrosal initiation or nose bleeds may occur. Prolonged contact with this concentrated product can initiate your skin.	NOTE TO PHYSICIAN: Administer either activated charcoal (100g for adults or 2g/kg l	Have	the product container or label with you when calling a poison control center or doctor, or going for treatment.
Image yee. - Call a police control center or doctor for treatment advice. If on kin or clothing: - Table off containments clothing. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash with sapa and water and rine for 15-20 minutes. - MIMERATIX's wash wash wash wash wash wash wash was	Personal Protective Equipment (PPI) Applicators and other handlines (other handlines and Ladowini must water: • Long-Seleve shirt and long pains: • Desciption could be applied on the selection of the selection of the • Desciption of the selection of the sele	children or Fuller's Farth (15% solution: T litre for adults or 15m children). NOT: Hou sed gastric lawage without administratic has not shown any clinical benefit. Do not use supplemental o from concentrated material should be treated by an eye specia treatment. With possibility of alte onset corneal ulceration, patients with paraquat eye injuries be examined by an eye spe- first presentation. Use treatment that is appropriate for chemic		HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372
NOTE TO PROFECULAR Indication of interact lances of unemain (1000) for adults or 2049 body weight in childreed or 7 fuels Earth (15% solution): The for Audult or 5 million (15%) adults that not down in your binary devices a superimental algority for generation that not down in your binary devices a superimental algority for generations that not down in your binary devices a superimental algority for generations that not down in your binary devices a superimental algority for generations that not down in your binary devices a superimental algority for generations that not down in your binary devices a superimental algority of the event corrow of the original abunds the day algorithm presentation. The superiment that is assignation of correctal abunds the forget in representation. The superiment is that any weak in policionity. Here the product control is half weak in the calling a settion control.	An advised strategy area of the second strate with any NL R, B or HE filter A data trian strategy approach enginese and number perform C 404. More and Loader must wear: I any elsever shift and long pans Advised strategy and the second strategy and t	It is a presentation to be treatment with a supportance of variant is an effective barrier to paraquark however contact with irritates, repeated contact with intact skin may result in poisoning. Have the product container or label with you when calling a po center or doctor, or going for treatment. HOT LINE NUMBER: For 24-Hour Medical Emergency Assistan Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or 1-300-000-0000	ice (Human or	
False the photoc containing on able with you when caning a public control center of obcrick or going for treatment. HOT LINE NUMBER: For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-000-000	Chemical-resistant apron Face shield			

• **Contents**. Labels list the net contents, by weight or liquid volume, contained in the package.



2.5 gallons **Net Contents**

• EPA Registration Number. This is the single most important piece of information for tracking pesticide products and getting treated for pesticide exposure.



- Agricultural Use Requirements. This is the worker protection part of the labeling, which gives instructions on how to protect fieldworkers and agricultural pesticide handlers.
 - "Do not enter or allow workers to enter treated areas during the restricted entry interval..."
 - PPE required for early entry to treated areas is..."
 - "Notify workers of the application by warning them orally and by posting warning signs at the entrances to treated areas."

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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 (RE). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Ob NOT enter or allow workers to enter treated areas during the restricted entry interval of 12 hours.

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California Specific Field Posting Signs

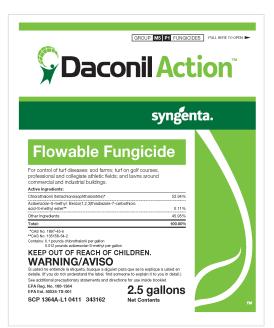


- **Precautionary Statements**. Precautionary statements describe pesticide hazards. This section may include up to three areas of hazard.
 - 1. Hazards to Humans and Domestic Animals
 - 2. Environmental Hazards
 - 3. Physical or Chemical Hazards

Precautionary Statements

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• Hazards to Humans and Domestic Animals



PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING/AVISO

May be fatal if inhaled. Do not breathe spray mist. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear appropriate protective eyewear (goggles, face shield, or safety glasses). Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. 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.

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.

Mixers, Loaders, and all other Handlers (except Applicators) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any N, R, P or HE prefilter.
- · Protective eyewear (goggles, face shield, or safety glasses)

UCYIPM 3CCR Section 6738: PPE

- Protective eyewear
 - Z87.1 compliant
 - Front, side, and brow protection







JCCR Section 6738: PPE

• Chemical resistant gloves







- Precautionary Statements
 - Environmental Hazards

UCໍ∳IPM

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply to water, or to areas where surface water is present, or to intertidal areas below the mean high water marks. Drift and runoff may be hazardous to aquatic organisms in neigboring area. Do not contaminate water when disposing of equipment wash water or rinsate. This pesticide is toxic to fish and aquatic invertebrates. Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean high water marks.

- Precautionary Statements
 - Physical or Chemical Hazards

PHYSICAL OR CHEMICAL HAZARDS

UC

Do not mix BRANDT LIME SULFUR with acids or phosphate fertilizer products. Deadly and potentially extremely flammable hydrogen sulfide gas may be emitted. Do not mix Brandt Lime Sulfur with acids or phosphate fertilizer products. Deadly and potentially extremely flammable hydrogen sulfide gas may be emitted.

Directions for Use

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the entire label before using this product. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift

SPECIFIC CROP DIRECTIONS

GRAPES AND SMALL VINE FRUITS (EXCEPT FUZZY KIWIFRUIT)

Crops of Crop SubGroup 13-07F Including: Amur river grape, Gooseberry, Grape, Hardy Kiwifruit, Maypop, Schisandra berry, and cultivars, varieties, and/or hybrids of these. Note: Do not apply or allow drift to Concord grapes or crop injury may occur.

Disease Controlled	Product Rate (fl oz/A)	Product Instructions
Powdery Mildew (Uncinula necator)	3.0 - 3.5	Apply on a 14- to 21-day interval as needed.
Botrytis Bunch Rot (Botrytis cinerea)	3.8	Apply on a 14- to 21-day interval as needed.
Annulis antism. Restwickie men		

Application Restrictions: Pre-Harvest Interval (PHI): 14 day(s) Minimum interval between applications: 7 days

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What is the difference Between Pesticide Labels and Safety Data Sheets

Brandt Lime S	Sulfur
Didnut Linie.	Sullui
Fungicide	
Not for residential use or application to residential sites. This product may	Mixers, loaders, applicators and other handlers must wear:
not be used in, on, or around any structure, vehicle, article, surface or area associated with the household, including non-agricultural outbuildings, non-	Coveralls over long-sleeved shirt and long pants, Chemical-resistant gloves,
commercial greenhouses, pleasure boats and recreational vehicles; in or around any preschool or day care facility or on humans or pets.	Chemical-resistant footwear plus socks,
	Goggles or face shield, Chemical-resistant headgear for overhead exposure,
ACTIVE INGREDIENT: Calcium polysulfide	Chemical-resistant apron when mixing, loading or cleaning equipment or spills,
OTHER INGREDIENTS:	A NIOSH approved respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C).
TOTAL:	or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge
Lbs Per Gallon at 68°F	or canister with any N, R, P or HE prefilter.
Contains Calcium and Sulfur expressed as Gypsum - 3.0 lbs. per gallon. Other combined Sulfur 1.9 lbs. per gallon.	For exposures in enclosed areas a respirator with either an organic vapor- removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH
EPA Reg. No. 61842-30-48813 EPA Est. No. 48498-CA-1	approval number prefix TC-23C), or a canister approved for pesticides (MSHA/ NIOSH approval number prefix TC-14G) must be used.
KEEP OUT OF REACH OF CHILDREN	For exposures outdoors, a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) must be used.
DANGER – PELIGRO	Discard clothing and other absorbent material that have been drenched or
Si usted no entiende la etiqueta, busque a alguien para que se la explique	heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such
a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)	instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
FIRST AID	If farm workers are unable to read, they must be given oral warnings and it must
IF SWALLOWED: Call a Poison Control Center or doctor immediately for	be assured that they understand label precautions and first-aid treatments. Warnings must be given in appropriate language if workers do not understand
treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the Poison Control Center or doctor.	English. Oral warnings should be given to inform workers of areas or fields which should not be entered without protective clothing, the amount of time
Do not give anything by mouth to an unconscious person.	the area or field should be vacated and first-aid actions to take in case of
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth,	accidental exposure.
if possible. Call a Poison Control Center or doctor for further treatment advice. IF IN EYES: Hold eyes open and rinse slowly and gently with water	USER SAFETY RECOMMENDATIONS: Users should: Wash hands before eating, drinking, chewing gum, using
for 15-20 minutes. Remove contact lenses, if present, after the first 5	tobacco or using the toilet. Remove clothing immediately if pesticide
minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.	gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves
IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Poison Control	before removing. As soon as possible, wash thoroughly and change into clean clothing.
Center or doctor for treatment advice.	
HOT LINE NUMBER: Have the product container or label with you when	ENVIRONMENTAL HAZARDS This pesticide is toxic to fish. Drift may be hazardous to aquatic organisms in
calling a Poison Control Center or doctor or going for treatment. You may also contact 1-866-374-1975 for emergency medical treatment information.	water adjacent to treated 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.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate	Do not contaminate water when disposing of equipment washwater or rinsate.
gastric lavage.	PHYSICAL OR CHEMICAL HAZARDS Do not mix BRANDT LIME SULFUR with acids or phosphate fertilizer
PRECAUTIONARY STATEMENTS	products. Deadly and potentially extremely flammable hydrogen sulfide
HAZARDS TO HUMANS AND DOMESTIC ANIMALS	gas may be emitted.
DANGER: Fatal if swallowed. Fatal if absorbed through the skin. Fatal if inhaled. Corrosive. Causes irreversible eye damage. Causes skin burns. Do not get in eyes,	DIRECTIONS FOR USE
on skin, or on clothing. Do not breathe vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum,	It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers
using tobacco or using the toilet. This product is corrosive to flesh because of its caustic alkaline nature.	or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State
PERSONAL PROTECTIVE EQUIPMENT (PPE)	or Tribe, consult the agency responsible for pesticide regulation.
Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA	
If you want more options, follow the instructions for Category A on an EPA chemical- resistance category selection chart.	
	BRANDT LIME SULFUR = 2013-10 = Page 1 of 4

Page 1 of 7 Safety Data Sheet Lime Sulfur Solution DS Number: Revision: 11/18/2013 1: Identification ection Product Name: Brandt Lime Sulfur, EPA Reg. No. 61842-30-48813 Other Identification: Chemical Family Inorganic salt solution Formula CaS EC Pre-Registration #: 05-2118202566-47-0000 Recommended Use of Chemical: Agricultural Industry, Pesticide - Fungicide Brandt Consolidated, Inc. 2935 South Koke Mill Road Springfield, IL 62711 (217) 547-5800 Manufacturer: Information Emergency Contact: Brandt Consolidated, Inc. (559) 994-9144 CHEMTREC (800) 424-9300 (Domestic) (703) 527-3887 (International) ection 2: Hazard(s) Identification Hazard Classification: Acute Oral toxicity Category 4 Acute Dermal toxicity Category 4 Health Acute Inhalation toxicity Category 4 Skin corrosion/irritation Category 2 Eye damage/irritation Category 2B Physical None Signal Word: Warning Hazard Statement(s): Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes skin irritation Causes eye irritation (1) 🚯 🕎 Symbol(s): Precautionary Statement(s): Wash thoroughly with soap and water after handling. If swallowed, get medical attention/contact Poison Control Center immediately. Wear protective gloves/protective clothing when handling product. If contact with the skin: Was immediately with water for 15 minutes. Brandt Lime Sulfur

Where are you Required to Keep Labels

• Section 6602 Availability of Labeling

A copy of the registered labeling that allows the manner in which the pesticide is being used shall be available *at each use site*.





Where Are You Required to Keep Pesticide Labels



Safety Rules for Pesticide Handlers in Agricultural Settings

The pesticide label, your training, and the Pesticide Safety Information Series (PSIS) leaflets tell you about pesticide dangers at work. To handle pesticides in agriculture (on farms, forests, nurseries or greenhouses) you must be at least 18 years old. Your employer must teach you how to use pesticides safely and how to protect yourself when you use them. Pesticides are chemicals that are used to control pests: unwanted insects, predatory animals, rodents, weeds, and plant diseases. Spray adjuvants are also pesticides under California law.

EMERGENCY MEDICAL CARE

UC 🗣 IPM

Your employer must make plans for emergency medical care before you start working with pesticides. If you think that pesticides made you sick or hurt you at work, immediately tell your employer. They must make sure that you are taken to a doctor right away. DO NOT TAKE YOURSELF. Emergency medical care is awailable at:

NAME:	
ADDRESS:	
TELEPHONE	

If more space is needed, your employer may attach a list of medical facilities to this leaflet and write, "See attached list" in the above space If this information changes, your employer must update it within 24 hours.

REMEMBER: You DO NOT have to pay for medical care if you get sick or hurt from pesticides at work.

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EMPLOYERS: This is the hazard communication leaflet for pesticide handlers. Fill in the blank lines in this leaflet and display a copy of this handout at a central location in the workplace (such as an employee break room) This leaflet must also be posted at all permanent decontamination facilities and decontamination facilities serving 11 or more handlers. If requested, you must read this leaflet to an employee in a language the employee understands



"You have the right to look at pesticide use records, applicable pesticide safety series leaflets, and SDSs for all the pesticides used in the last two years where you work...."

These records are kept at....

Where Are You Required to Keep Pesticide Labels

 Central Display. Information from the pesticide label, application specific information and Safety Data Sheets are required to be displayed.





The Label is the Law

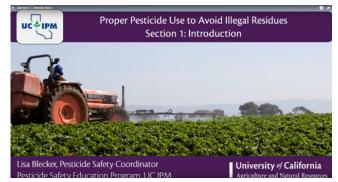
• But that's just the half of it



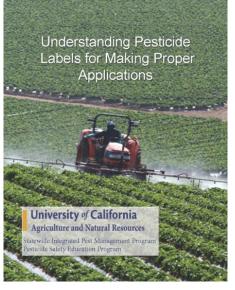


Resources for You

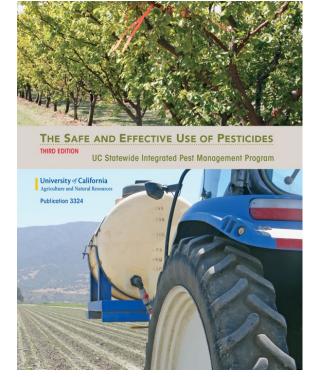
UC VIPM



http://ipm.ucanr.edu/training



http://ipm.ucanr.edu/IPM PROJECT/pesttrain.html



http://anrcatalog.ucanr.edu/



Lisa Blecker

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http://ucanr.edu/TrainMe