


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				Not regulated by the U.S. DOT as a hazardous material for ground shipment. See Section 14 for Additional Information.
1	Slight	1	Health		
2	Moderate	1	Flammability		
3	High		Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name:	Protegam™ YLD
EPA Registration #:	264-1093-1381
Common Name:	Prothioconazole Trifloxystrobin
Chemical Description:	2-[2-(1-Chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione (E,E)-alpha-(methoxyimino)-2-[[[1-[3-(trifluoromethyl)phenyl] ethylidene]amino]oxy]methyl]-, methylester
Recommended Uses:	Fungicide
Restrictions for Use:	See product label for restrictions.
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
POTENTIAL HEALTH EFFECTS: Eyes: Causes moderate eye irritation. Skin: Harmful if absorbed through skin. Inhalation: Harmful if inhaled. Ingestion: Harmful if swallowed. Preexisting Conditions: NA Chronic Health Effects: NA	
Carcinogenicity:	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Acute toxicity (Inhalation): Category 4	
SIGNAL WORD: WARNING	
HAZARD STATEMENTS: Harmful if inhaled.	
PRECAUTIONARY STATEMENTS: Prevention: Avoid breathing mist/vapors. Use only outdoors or in a well-ventilated area.	
Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

Call a POISON CENTER/doctor/physician if you feel unwell.

Storage: Protect from sunlight.

Disposal: Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations. See pesticide label for further information on pesticide disposal.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Prothioconazole	10.8	178928-70-6
Trifloxystrobin	32.3	141517-21-7
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(j).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES

Inhalation:	Move 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 physician or poison control center immediately.
Ingestion:	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
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 physician or poison control center immediately.
Skin:	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, Carbon dioxide (CO₂), Foam, Sand

Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

Unusual Fire and Explosion Hazards: Dangerous gases are evolved in the event of a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: No data available.

Methods for Clean-up and Containment: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Collect and transfer the product into a properly labelled and tightly closed container.

Other Information: Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

SECTION 7: HANDLING AND STORAGE

Handling: Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.

Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight.

Minimum Storage Temperature: Not determined.

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
Exposure Guidelines Component:	OSHA PEL	ACGIH TLV	NIOSH REL
	None	None	None
Respiratory Protection:	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.		
Engineering Controls:	Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.		
Protective Gloves:	Chemical resistant nitrile rubber gloves		
Eye Protection:	Tightly fitting safety goggles		
Other Protective Clothing or Equipment:	Wear long-sleeved shirt and long pants and shoes plus socks		
Work/Hygienic Practices:	Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Suspension	Specific Gravity (H₂O=1):	1.16 x 10 ⁻⁶
Vapor Pressure (mm Hg):	No data available	Density (lbs/gallon):	ca. 1.16 g/cm ³ (20°C)
Vapor Density (Air=1):	No data available	Melting Point/Freezing Point:	No data available
Solubility in Water (wt %):	No data available	Boiling Point/Range:	No data available
Viscosity:	250 - 450 mPas (20°C) Velocity gradient 20/s	pH:	6.5 - 7.5 (10%) (23°C)
Appearance and odor:	White to light beige and characteristic	Flash Point:	No data available

SECTION 10: STABILITY AND REACTIVITY	
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	No dangerous reaction known under conditions of normal use.
Incompatible Materials:	No data available
Hazardous Decomposition Products:	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION	
ACUTE TOXICITY	
Eye Effects:	Mild eye irritation. (Rabbit)
Skin Effects:	Slight irritation (Rabbit)
Acute Inhalation Effects:	LC50 (Rat) > 2.6 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.
Acute Oral Effects:	LD50 (female Rat) > 5,000 mg/kg
Specific Target Organ Toxicity:	Trifloxystrobin did not cause specific target organ toxicity in experimental animal studies. Prothioconazole did not cause specific target organ toxicity in experimental animal studies.
CHRONIC TOXICITY	
Chronic Effects:	Not determined.
Carcinogenicity:	Trifloxystrobin was not carcinogenic in lifetime feeding studies in rats and mice. Prothioconazole was not carcinogenic in lifetime feeding studies in rats and mice.
Mutagenicity:	Trifloxystrobin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Prothioconazole was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
Teratogenicity:	Not classified.

Reproductive Toxicity:	Trifloxystrobin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Trifloxystrobin is related to parental toxicity. Prothioconazole caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Prothioconazole is related to parental toxicity.
Developmental Toxicity:	Trifloxystrobin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Trifloxystrobin are related to maternal toxicity. Prothioconazole caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Prothioconazole are related to maternal toxicity.

SECTION 12: ECOLOGICAL INFORMATION	
ENVIRONMENTAL SUMMARY:	
ECOTOXICITY DATA:	
Fish Acute and Prolonged Toxicity:	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.015 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient trifloxystrobin.
Aquatic Invertebrate Acute Toxicity:	LC50 (Oncorhynchus mykiss (rainbow trout)) 1.83 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient prothioconazole. EC50 (Daphnia magna (Water flea)) 0.016 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient trifloxystrobin.
Aquatic Plant Toxicity:	EC50 (Daphnia magna (Water flea)) 1.3 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient prothioconazole. IC50 (Desmodesmus subspicatus (green algae)) 0.0053 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient trifloxystrobin. IC50 (Raphidocelis subcapitata (freshwater green alga)) 2.18 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient prothioconazole. ErC50 (Skeletonema costatum) 0.03278 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient prothioconazole. EC10 (Skeletonema costatum) 0.01427 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient prothioconazole.
Bird Acute and Prolonged Toxicity:	Not determined.
Honeybee Toxicity:	Not determined.
ENVIRONMENTAL EFFECTS:	
Soil Absorption/Mobility:	Trifloxystrobin: Slightly mobile in soils Prothioconazole: Slightly mobile in soils
Persistence and degradability:	Trifloxystrobin: Not rapidly biodegradable Prothioconazole: Not rapidly biodegradable
Bioaccumulative Potential:	Trifloxystrobin: Bioconcentration factor (BCF) 431 Does not bioaccumulate. Prothioconazole: Bioconcentration factor (BCF) 19 Does not bioaccumulate.
Other adverse effects:	No other effects to be mentioned.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Do not contaminate water, food, or feed by disposal. Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations. See pesticide product label for full instructions on disposal.
RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

DOT:
(Ground) Not Regulated

IMDG:
(Sea) UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (TRIFLOXYSTROBIN, PROTHIOCONAZOLE SOLUTION), Marine Pollutant, 9, PG III

IATA:
(Air) UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (TRIFLOXYSTROBIN, PROTHIOCONAZOLE SOLUTION), Marine Pollutant, 9, PG III

TDG:
(Canada) Not Determined

Section 15—Regulatory Information

TSCA Inventory: Water 7732-18-5
 1,2-Propanediol 57-55-6
 Polyethylene-polypropylene copolymer 9003-11-6

SARA Title III Information:
Section 302 - Extremely hazardous substances: None listed.
Section 313 - The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372: None.

EPA Registration Information: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Caution!
 Harmful if swallowed, inhaled or absorbed through the skin.
 Moderate eye irritation.
 Avoid inhalation of vapor or mist.
 Avoid contact with skin, eyes and clothing.
 Wash thoroughly with soap and water after handling.

California Proposition 65: This product does not contain any substances known to the State of California to cause cancer.
 This product does not contain any substances known to the State of California to cause reproductive harm.

U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

Chemical Name	CAS #	State(s)
1,2-Propanediol	57-55-6	MN, RI
Synthetic amorphous silica	112926-00-8	CA, MN
Sodium hydroxide	1310-73-2	CA, CT, IL, MN, NJ, RI

Section 16—Other

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