

## Material Safety Data Sheet

PROLINE® 480 SC FUNGICIDE

MSDS Number: 102000014342 MSDS Version 1.0 Revision Date: 03/08/2007

## SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name MSDS Number EPA Registration No. PROLINE® 480 SC FUNGICIDE 102000014342 264-825

Bayer CropScience 2 T.W. Alexander Drive Research Triangle PK, NC 27709 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day) For Product Information call: 1-866-99BAYER (1-866-992-2937)

SECTION 2. COMPOSITION	I/INFORMATION ON INGREE	DIENTS	
Hazardous Component Name		CAS-No.	Average % by Weight
Prothioconazole		178928-70-6	41.00
SECTION 3. HAZARDS IDE	NTIFICATION		
NOTE: Please refer to Section	on 11 for detailed toxicological	information	
Emergency Overview	Caution! Harmful by inhalati contact with skin, eyes and	on and if swallowed. M	
Physical State	suspension		
Odor	slight characteristic		
Appearance	off-white		
Routes of Exposure	Eye contact, Ingestion, Inha	lation, Skin contact	
Immediate Effects			
Eye	Mild eye irritation.		
Skin	May cause slight irritation. A	void contact with cloth	ing.
Ingestion	Harmful if swallowed.		
Inhalation	Harmful if inhaled. Avoid bre irritation.	eathing spray mist. Mis	ts may cause respiratory tract

#### **SECTION 4. FIRST AID MEASURES**



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General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Еуе	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.
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.
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.
Notes to Physician Treatment	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

## SECTION 5. FIRE FIGHTING MEASURES

Flash point	no data available
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Fire Fighting Instructions	Avoid contact with spilled product or contaminated surfaces. Evacuate personnel to safe areas. Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Isolate hazard area. Keep unauthorized people away. Use personal protective equipment.



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# **Methods for Cleaning Up** Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Collect and transfer the product into a properly labelled and tightly closed container. Contaminated soil may have to be removed and disposed.

Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

Additional Advice Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact vegetation.

## SECTION 7. HANDLING AND STORAGE

Handling Procedures	Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.
Storing Procedures	Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.
Work/Hygienic Procedures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Handle in accordance with good industrial hygiene and safety practice. Remove soiled clothing immediately and clean thoroughly before using again.
	Wash thoroughly and put on clean clothing.
Min/Max Storage Temperatures	Do not transport or store below 0 °C / 32 °F

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

General Protection	Follow all label instructions. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.
Eye/Face Protection	protective eyewear
Hand Protection	Chemical resistant nitrile rubber gloves
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory Protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the



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## Exposure Limits

This product contains material which are Trade Secret and may have Occupational Exposure Limits. If more information is required, call the product information number listed in Section 1.

appropriate regulatory standards and/or industry recommendations.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	off-white
Physical State	suspension
Odor	slight characteristic
рН	7 (100 %) at 20 °C
Density	approx. 1.18 g/cm³ at 20 °C
Evaporation rate	no data available
Water solubility	miscible
Decomposition Temperature	no data available

## SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid	freezing
Incompatibility	no data available
Hazardous Decomposition Products	no data available
Hazardous Reactions	Stable under recommended storage conditions.

## SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical-grade active ingredient, prothioconazole.

## Acute Oral Toxicity female rat: LD50: > 2,000 - < 5,000 mg/kg (up & down method)



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## PROLINE® 480 SC FUNGICIDE Acute Dermal Toxicity male/female combined rat: LD50: > 5,000 mg/kg

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Acute Inhalation Toxicity	male/female combined rat: LC50: > 1.6 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration. No deaths (actual)
	male/female combined rat: LC50: > 6.4 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Highest attainable concentration. No deaths (actual)
Skin Irritation	rabbit: Slight irritation.
Eye Irritation	rabbit: Minimally irritating.
Sensitization	guinea pig: Non-sensitizing.
Chronic Toxicity	Prothioconazole produced liver and kidney effects in chronic oral gavage studies in rats and dogs. In addition, secondary urinary bladder effects occurred at high dose levels in the rat.

## Assessment Carcinogenicity

Prothioconazole was not carcinogenic in lifetime studies in rats and mice.

ACGIH None. NTP None. IARC None. OSHA None.	
Reproductive & Developmental Toxicity	REPRODUCTION: Prothioconazole caused decreases in litter size, pup body weight gains, and neonatal spleen weights at maternally toxic doses in a multi-generation study in rats.
	DEVELOPMENTAL TOXICITY: Prothioconazole produced developmental effects in conjunction with maternal toxicity in oral gavage developmental studies in rats and rabbits. Developmental toxicity was not observed in rats exposed dermally to prothioconazole.
Neurotoxicity	Prothioconazole produced slight transient neurobehavioral effects with no correlating morphological changes in the neural tissues or skeletal muscles in acute and subchronic neurotoxicity screening studies in rats. Prothioconazole is



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not neurotoxic.

MutagenicityProthioconazole was not mutagenic or genotoxic based on the overall weight of<br/>evidence from a battery of in vitro and in vivo tests.

## **SECTION 12. ECOLOGICAL INFORMATION**

Environmental<br/>PrecautionsDo not apply directly to water, to areas where surface water is present or to<br/>intertidal areas below the mean high water mark. Do not contaminate surface or<br/>ground water by cleaning equipment or disposal of wastes, including equipment<br/>wash water. Do not allow to get into surface water, drains and ground water.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

General Disposal Guidance	Dispose in accordance with all local, state/provincial and federal regulations. Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.
Container Disposal	Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Follow advice on product label and/or leaflet.

## **SECTION 14. TRANSPORT INFORMATION**

TRANSPORTATION CLASSIFICATION: Not regulated for all modes of transport

FREIGHT CLASSIFICATION: Insecticides or Fungicides, N.O.I.; other than poison

## SECTION 15. REGULATORY INFORMATION

This product contains material(s) which are Trade Secret and are on various Regulatory Lists. These material(s) are not listed below. If more information is required, call the product information number listed in Section 1.

**EPA Registration No.** 264-825

## **US Federal Regulations**

**TSCA** list

None.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) None.



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SARA Title III - Section 302 - Notification and Information None. SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

## **US States Regulatory Reporting**

## CA Prop65

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.

**US State Right-To-Know Ingredients** 

None.

Canadian Regulations

Canadian Domestic Substance List None.

Environmental CERCLA None. Clean Water Section 307 Priority Pollutants None.

Safe Drinking Water Act Maximum Contaminant Levels None.

## SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association): Health - 1 Flammability - 0 Reactivity - 0 Others - none 0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: New Material Safety Data Sheet.

Revision Date: 03/08/2007

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