

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 PROLINE® 480 SC FUNGICIDE

MSDS Number 102000014342

EPA Registration No. 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/INFORMATION ON INGREDIENTS

Hazardous Component NameCAS-No.Average % by WeightProthioconazole178928-70-641.00

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution! Harmful by inhalation and if swallowed. Moderate eye irritation. Avoid

contact with skin, eyes and clothing. Avoid inhalation of vapour or mist.

Physical State suspension

Odor slight characteristic

Appearance off-white

Routes of Exposure Eye contact, Ingestion, Inhalation, Skin contact

Immediate Effects

Eye Mild eye irritation.

Skin May cause slight irritation. Avoid contact with clothing.

Ingestion Harmful if swallowed.

Inhalation Harmful if inhaled. Avoid breathing spray mist. Mists may cause respiratory tract

irritation.

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.

Eye 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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appropriate regulatory standards and/or industry recommendations.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance off-white

Physical State suspension

Odor slight characteristic

pH 7 (100 %) at 20 °C

Density approx. 1.18 g/cm³ at 20 °C

Evaporation rate no data available

Water solubility miscible

Decomposition no d

Temperature

no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid freezing

Incompatibility no data available

Hazardous no data available

Decomposition Products

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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male/female combined rat: LD50: > 5,000 mg/kg **Acute Dermal Toxicity**

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.

Mutagenicity Prothioconazole was not mutagenic or genotoxic based on the overall weight of

evidence from a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment 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

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.