



Material Safety Data Sheet
BAYTAN® 30 FLOWABLE FUNGICIDE

MSDS Number: 102000012819
 MSDS Version 2.1
 Revision Date: 05/14/2008

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BAYTAN® 30 FLOWABLE FUNGICIDE
MSDS Number 102000012819
EPA Registration No. 264-941

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

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Triadimenol	55219-65-3	30.00
Ethanediol	107-21-1	7.50

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Harmful if swallowed, inhaled or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not breathe vapour. Do not get in eyes, on skin, or on clothing.

Physical State liquid

Odor none

Appearance light tan to brown

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

Immediate Effects

Eye May cause eye irritation. Do not get in eyes.

Skin May cause skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing.

Ingestion Do not take internally. Harmful if swallowed.

Inhalation May cause upper respiratory tract irritation. Do not breathe vapour. Harmful if inhaled.



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Chronic or Delayed Long-Term This product or its components may have target organ effects.

SECTION 4. FIRST AID MEASURES

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	> 93.4 °C / 200.1 °F
Fire and Explosion Hazards	In the event of fire the following can be released: Amines Nitrogen oxides (NOx) Carbon monoxide (CO) Hydrogen chloride (HCl) Sulphur oxides hydrazine
Suitable Extinguishing Media	Foam, Carbon dioxide (CO2), Dry chemical, Water spray



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Fire Fighting Instructions

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

Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods for Cleaning Up

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

Additional Advice

Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

SECTION 7. HANDLING AND STORAGE

Handling Procedures

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

Keep away from heat and sources of ignition.

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.

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.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Min/Max Storage Temperatures

Recommended minimum transport/storage temperature: 2 °C / 36 °F
Recommended maximum transport/storage temperature: 49 °C / 120 °F

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection

Follow all label instructions. Train employees in safe use of the product.



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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** Tightly fitting safety goggles
- 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 appropriate regulatory standards and/or industry recommendations.

Exposure Limits

Triadimenol	55219-65-3	OES BCS*		1.61 mg/m3
		TX ESL	ST ESL	30 ug/m3
		TX ESL	AN ESL	3 ug/m3
Ethanediol	107-21-1	ACGIH	Ceiling	100 mg/m3
		OSHA Z1A	Ceiling	50 ppm
		US CA OEL	Ceiling	40 ppm
		TX ESL	ST ESL	100 ppm
		TX ESL	ST ESL	100 ppm
		TX ESL	AN ESL	10 ppm
		TX ESL	AN ESL	10 ppm

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** light tan to brown
- Physical State** liquid
- Odor** none
- pH** 6.5 - 8.5 (undiluted)
- Density** approx. 1.06 g/cm³ at 20 °C
- Melting / Freezing Point** -12.2 - -9.4 °C / 10.0 - 15.1 °F
- Water solubility** miscible
- Viscosity** 300 - 500 mPa.s



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SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid	Heat, flames and sparks.
Incompatibility	Acids Strong oxidizing agents
Hazardous Reactions	Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute Oral Toxicity	male/female combined rat: LD50: 3,300 mg/kg
Acute Dermal Toxicity	rabbit: LD50: > 2,000 mg/kg
Acute Inhalation Toxicity	rat: LC50: > 25.3 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. nominal concentration
Skin Irritation	rabbit: Slight irritation.
Eye Irritation	rabbit: Mild eye irritation.
Sensitization	guinea pig: sensitizing
Chronic Toxicity	Triadimenol caused liver effects in chronic studies in mice, rats and/or dogs.

Assessment Carcinogenicity

Triadimenol was not carcinogenic in a lifetime feeding study in rats. Triadimenol has been classified by EPA as a Group C (possible human carcinogen) based on an increased incidence of liver tumors in female mice.

ACGIH		
Ethanediol	107-21-1	Group A4
NTP		
None.		
IARC		
None.		
OSHA		
None.		

Reproductive & Developmental Toxicity	REPRODUCTION: Triadimenol was not a reproductive toxicant in a two-generation study in rats.
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DEVELOPMENTAL TOXICITY: Triadimenol is not considered a primary developmental toxicant in laboratory animals. Developmental effects were observed only at doses that caused maternal toxicity.

Neurotoxicity Triadimenol causes neurobehavioral changes in laboratory animals.

Mutagenicity Triadimenol was not mutagenic or genotoxic in 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. Apply this product as specified on the label.

Ecological Information Exposed treated seed may be hazardous to birds.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Open dumping is prohibited. 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. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
Not regulated for shipment by any mode of transportation

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

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 264-941

US Federal Regulations

TSCA list

Ethanediol

107-21-1



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US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Ethanediol 107-21-1 1.0%

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

Ethanediol 107-21-1 CA, IL, MN, NJ, PA, RI

Canadian Regulations

Canadian Domestic Substance List

Ethanediol 107-21-1

Environmental

CERCLA

Ethanediol 107-21-1 5,000 lbs

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 - 1 Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Updated Section 11: Toxicological Information.

Revision Date: 05/14/2008

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.