

**Material Safety Data Sheet****COMPASS™ FUNGICIDE**

MSDS Number: 102000011560

MSDS Version 1.0

Revision Date: 07/21/2008

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name COMPASS™ FUNGICIDE
MSDS Number 102000011560
EPA Registration No. 432-1371

Bayer Environmental Science
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: 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Trifloxystrobin	141517-21-7	50.00
Diatomaceous earth	61790-53-2	10.00

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Causes eye irritation. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Physical State granular solid

Appearance brown

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

Immediate Effects

Eye May cause mild irritation to eyes. Do not get in eyes.

Skin May cause slight irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if absorbed through skin.

Ingestion Do not take internally.

Inhalation Do not breathe dust or spray mist.

**Material Safety Data Sheet****COMPASS™ FUNGICIDE**

MSDS Number: 102000011560

MSDS Version 1.0

Chronic or Delayed Long-Term	This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA. This product or its components may have long term (chronic) health effects.
Medical Conditions Aggravated by Exposure	As with all materials which can cause upper respiratory tract irritation, persons with a history of asthma, emphysema, or hyperreactive airways disease may be more susceptible to overexposure. Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.
Target Organs	Liver
Potential Environmental Effect	Toxic to fish and aquatic invertebrates.

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	not applicable
Autoignition Temperature	320 °C / 608 °F



Material Safety Data Sheet

COMPASS™ FUNGICIDE

MSDS Number: 102000011560
MSDS Version 1.0

Fire and Explosion Hazards

In the event of fire the following can be released:
Hydrogen cyanide (hydrocyanic acid)
Hydrogen fluoride (HF)
Carbon monoxide (CO)
Nitrogen oxides (NOx)

Suitable Extinguishing Media

Dry chemical, Foam, Carbon dioxide (CO₂), Water

Fire Fighting Instructions

Evacuate personnel to safe areas. Avoid contact with spilled product or contaminated surfaces. Contain the spread of the fire-fighting media. Keep out of smoke. Do not allow run-off from fire fighting to enter drains or water courses.

After fire is extinguished, do not turn on any ignition source until the area is determined to be free from explosion or fire hazard.

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. Use personal protective equipment.

Methods for Cleaning Up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect and transfer the product into a properly labelled and tightly closed container. Avoid dust formation. Decontaminate tools and equipment following cleanup. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.

Additional Advice

Do not allow to enter soil, waterways or waste water canal. Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

Handling Procedures

Handle and open container in a manner as to prevent spillage. Avoid contact with skin, eyes and clothing. 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. Store in a place accessible by authorized persons only.

Work/Hygienic

Handle in accordance with good industrial hygiene and safety practice. Wash



Material Safety Data Sheet

COMPASS™ FUNGICIDE

MSDS Number: 102000011560

MSDS Version 1.0

Procedures 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. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Min/Max Storage Temperatures no data available

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection Keep and wash PPE separately from other laundry. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.

Eye/Face Protection Safety glasses with side-shields

Hand Protection Chemical resistant nitrile rubber gloves

Body Protection Wear long-sleeved shirt and long pants and shoes plus socks. Coveralls

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

Trifloxystrobin	141517-21-7	OES BCS*		2.7 mg/m3
Diatomaceous earth	61790-53-2	OSHA Z1A	TWA	6 mg/m3
		US CA OEL	TWA PEL	3 mg/m3
		US CA OEL	TWA PEL	6 mg/m3
		US CA OEL	TWA PEL	6 mg/m3
		TX ESL	ST ESL	40 ug/m3
		TX ESL	AN ESL	4 ug/m3

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance brown

Physical State granular solid

Bulk Density 27 - 32 lb/ft³

**Material Safety Data Sheet**
COMPASS™ FUNGICIDEMSDS Number: 102000011560
MSDS Version 1.0

Water solubility 0.00061 g/l

SECTION 10. STABILITY AND REACTIVITY**Hazardous Reactions** No hazardous reactions when stored and handled according to prescribed instructions.**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, trifloxystrobin.

Acute Oral Toxicity rat: LD50: > 5,050 mg/kg**Acute Dermal Toxicity** rat: LD50: > 2,000 mg/kg**Acute Inhalation Toxicity** rat: LC50: > 2.7 mg/l
Exposure time: 4 h
Determined in the form of dust.

rat: LC50: > 10.8 mg/l
Exposure time: 1 h
Determined in the form of dust.
Extrapolated from the 4 hr LC50.**Skin Irritation** rabbit: Slight irritation.**Eye Irritation** rabbit: Mild eye irritation.**Sensitization** guinea pig: sensitizing**Chronic Toxicity** mouse: sensitizing
Trifloxystrobin caused liver effects in chronic studies in mice, rats and/or dogs.**Assessment Carcinogenicity**

Trifloxystrobin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

None.

NTP

None.

IARC**OSHA**

None.

Reproductive & Developmental Toxicity REPRODUCTION: Trifloxystrobin is not considered a primary reproductive toxicant in rats.

**Material Safety Data Sheet****COMPASS™ FUNGICIDE**

MSDS Number: 102000011560

MSDS Version 1.0

DEVELOPMENTAL TOXICITY: Trifloxystrobin is not considered a primary developmental toxicant in laboratory animals. Developmental effects were observed only at doses that caused maternal toxicity.

Neurotoxicity Trifloxystrobin is not a primary neurotoxicant based on an acute (oral gavage) neurotoxicity screening study in rats.

Mutagenicity Trifloxystrobin was not considered mutagenic or genotoxic based on 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 apply when weather conditions favor runoff or drift.

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. It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.

Container Disposal Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Consult state and local regulations regarding the proper disposal of container. Follow advice on product label and/or leaflet.

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:
Not regulated for transportation

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

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1371

US Federal Regulations**TSCA list**

Diatomaceous earth

61790-53-2



Material Safety Data Sheet

COMPASS™ FUNGICIDE

MSDS Number: 102000011560

MSDS Version 1.0

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

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

Diatomaceous earth

61790-53-2

IL, MN

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 - 1

Reactivity - 0

Others - none

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

Reason to Revise: Updated for general editorial purposes.

Revision Date: 07/21/2008

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