

# COMPASS

Novartis Crop Protection, Inc  
Post Office Box 18300  
Greensboro, NC 27419  
In Case of Emergency, Call  
Novartis: 1-800-888-8372  
CHEMTREC: 1-800-424-9300

## 1. CHEMICAL IDENTIFICATION

Product Name: **COMPASS**  
Product No.: A9360B  
EPA Signal Word: Caution  
Active Ingredient(%): Trifloxystrobin (50.0%)  
CAS No.: 141517-21-7  
Chemical Name: Benzeneacetic acid, (E,E)-alpha-(methoxyimino)-2-[[[1-[3-trifluoromethyl]phenyl]ethylidene] amino] oxy] methyl]-, methyl ester  
Chemical Class: Fungicide

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Surfactant	Not Established	Not Established	15 mg/m3 (Total Dust)*	No
Sodium Sulfite	Not Established	Not Established	Not Established	IARC, 3
Sodium Sulfate	Not Established	Not Established	15 mg/m3 (Total Dust)	No
Antifoam Agent	15 mg/m3 (Total Dust)	10 mg/m3 (Total Dust)	Not Established	No
Pergopak M	Not Established	Not Established	Not Established	No
Nuisance Dusts (Particulates N.O.C.)	15 mg/m3 (Total Dust)	10 mg/m3 (Total Dust)	Not Established	No
Surfactant	Not Established	Not Established	Not Established	No
Wetting Agent	Not Established	Not Established	Not Established	No
Carrier	80 mg/m3%-SiO2	10 mg/m3 (Inhalable); 3 mg/m3 (Respirable)	Not Established	IARC, 2A
Trifloxystrobin (50.0%)	Not Established	Not Established	Not Established	No

\*recommended by manufacturer

## 3. HAZARDS IDENTIFICATION

### Notes to Physician

There is no specific antidote if this product is ingested. Treat symptomatically.

An aqueous suspension of activated charcoal can be administered to absorb remaining toxicant.

### Symptoms of Acute Exposure

A skin sensitizing (allergic) reaction may occur in some individuals.

### Hazardous Decomposition Products

None Known

### Physical Properties

Appearance: Grey to Beige Granules

Odor: Weak Odor, Indeterminate

### Unusual Fire, Explosion and Reactivity Hazards

None Known

## 4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given. Ingestion: If victim is fully conscious, immediately give large quantities of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse

the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

### Notes to Physician

There is no specific antidote if this product is ingested. Treat symptomatically.

An aqueous suspension of activated charcoal can be administered to absorb remaining toxicant.

### Medical Condition Likely to be Aggravated by Exposure

Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

## 5. FIRE FIGHTING MEASURES

### Fire and Explosion

Flash Point (Test Method): Not Applicable

Flammable Limits (% in Air): Lower: %; Upper: % Not Applicable

Autoignition Temperature: 320°C

Flammability: Not Flammable

### Unusual Fire, Explosion and Reactivity Hazards

None Known

### In Case of Fire

Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

## 6. ACCIDENTAL RELEASE MEASURES

### In Case of Spill or Leak

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency may range from 95 - 99.97% as appropriate for the size distribution of dusts present. For small spills, sweep up, keeping dust to a minimum, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

## 7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

Inhalation: To avoid breathing dust, use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics

of any other air contaminants present. Filter efficiency may range from 95 - 99.97% as appropriate for the size distribution of dusts present.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey to Beige Granules

Odor: Weak Odor, Indeterminate

Melting Point: 70.9°C

Boiling Point: Not Applicable

Specific Gravity/Density: 0.60 g/cm<sup>3</sup> @ 25°C

pH: 9-11(1% suspension in water)

### Solubility in H<sub>2</sub>O

Trifloxystrobin: Not Available

### Vapor Pressure

Trifloxystrobin : Not Available

## 10. STABILITY AND REACTIVITY

### Reactivity

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: None Known

### Hazardous Decomposition Products

None Known

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies

Ingestion: slightly toxic

Oral LD50 (Rat): > 4,000 mg/kg body weight

Dermal: slightly toxic

Dermal LD50 (Rabbit): > 2,000 mg/kg body weight

Inhalation: Not Available

Inhalation LC50 (Rat): Not Available

Eye Contact: non-irritating (Rabbit)

Skin Contact: non-irritating (Rabbit)

Skin Sensitization: sensitizing (Guinea Pig)

### Mutagenic Potential

Trifloxystrobin: Negative in Ames, CHO, Rat Hepatocytes and Mouse Micronucleus

### Reproductive Hazard Potential

Trifloxystrobin: Teratogenicity: Developmental delays and fetal toxicity at maternally toxic dose

Reproductive: None Observed

### Chronic/Subchronic Toxicity Studies

Trifloxystrobin:

Subchronic: Liver, pancreas, gall bladder, and spleen effects at high dose

Chronic: Not Available

### Carcinogenic Potential

Trifloxystrobin: Not Available

### Other Toxicity Information

Not Available

### Toxicity of Other Components

Antifoam Agent

Dust may irritate nose and throat. May cause an allergic reaction in sensitive individuals. Direct contact with eyes may cause temporary discomfort with mild redness and dryness similar to windburn.

Carrier

OSHA requires the hazards of the components of mixtures be shown on a Material Safety Data Sheet. The carrier in this product is naturally occurring diatomaceous earth. Natural diatomaceous earth contains up to 7% of naturally occurring crystalline silica, which is considered a probable human carcinogen. Chronic inhalation exposure to crystalline silica is known to cause silicosis and pulmonary fibrosis in humans. Experimental animals exposed to crystalline silica developed respiratory tract cancers.

Pergopak M

Not Available

Sodium Sulfate

Exposure may cause irritation of the nose, throat and lungs. Repeated or prolonged contact to the skin results in dermatitis. May cause mild irritation to the eyes.

Surfactant

Exposure can result in eye, skin and respiratory tract irritation.

Surfactant

Exposure may result in slight irritation of eyes and skin.

Wetting Agent

Exposure to skin and eyes may result in irritation.

### Target Organs

### Active Ingredients

Trifloxystrobin: Liver, Spleen, Gall Bladder, and Pancreas

Inert Ingredients

Antifoam Agent: Eyes and Respiratory System  
 Carrier: Respiratory Tract  
 Pergopak M: Not Available  
 Sodium Sulfate: Respiratory Tract, Skin and Eyes  
 Surfactant: Eyes, Skin and Respiratory Tract  
 Surfactant: None Known  
 Wetting Agent: None Known

**12. ECOLOGICAL INFORMATION**

Summary of Effects

Trifloxystrobin: Not Available

Eco-Acute Toxicity

Trifloxystrobin:

Eco-Chronic Toxicity

Trifloxystrobin:

Environmental Fate

Trifloxystrobin: Not Available

**13. DISPOSAL CONSIDERATION**

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

**14. TRANSPORT INFORMATION**

DOT Classification:

Not Applicable; No Label or Placard Required

B/L Freight Classification

Insecticides or Fungicides; Agricultural, N.O.S.

International Transportation

Not Applicable

**15. REGULATORY INFORMATION**

SARA Title III Classification

Section 311/312: Acute Health Hazard

Chronic Health Hazard

Section 313 chemical(s): Not Applicable

Proposition 65

Not Applicable

CERCLA Reportable Quantity (RQ)

None

RCRA Classification

Not Applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

**16. OTHER INFORMATION**

<u>NFPA Hazard Ratings</u>		
Health	1	0 Least
Flammability	1	1 Slight
Reactivity	0	2 Moderate
		3 High
		4 Severe

Questions concerning the safe handling of the product should be referred to: Health, Safety and Environmental Department

1-800-334-9481 (extension 2701)

Issued Date: 04/07/1999

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Supersedes: 05/20/1999

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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