

Material Safety Data Sheet FLINT® FUNGICIDE

MSDS Number: 102000011560 MSDS Version 1.1 Revision Date: 01/17/2008

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name FLINT® FUNGICIDE MSDS Number 102000011560

EPA Registration No. 264-777

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 Name	CAS-No.	Average % by Weight
Trifloxystrobin	141517-21-7	50.00
Diatomaceaous earth	61790-53-2	9.50

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Moderate 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, Inhalation, Skin Absorption

Immediate Effects

Eye Mild eye irritation.

Skin Slight irritation. Prolonged skin contact may cause skin irritation and/or

dermatitis.

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 target organ effects.

Medical Conditions

Individuals with allergic history or pre-existing dermatitis should use extra care in

Aggravated by Exposure handling this product.



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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

a physician of poison control center. Never give anything by mouth to

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

Suitable Extinguishing

Media

Dry chemical, Foam, Carbon dioxide (CO2)

Fire Fighting Instructions

Evacuate personnel to safe areas. Whenever possible, contain fire-fighting water by diking area with sand or earth. Keep out of smoke. Fight fire from upwind

position.

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.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with spilled product or contaminated surfaces. Keep unauthorized

people away. Avoid dust formation.

Methods for Cleaning Up Clean contaminated floors and objects thoroughly, observing environmental

regulations. Sweep up or vacuum up spillage and collect in suitable container for

disposal.

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.

Keep away from heat and sources of ignition.

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 soiled clothing immediately and clean thoroughly before using again.

Wash thoroughly and put on clean clothing.

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 Waterproof 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
Diatomaceaous earth 61790-53-2 ACGIH TWA 10 mg/m3



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a specified equation using a value of 100%. Values lower than 100% will give higher exposure limits. See regulation for specific

6 mg/m3

equation.

REL

Inhalable fraction.

Remarks		The value is for particulate	
		matter containing i	
		asbestos and <1%	crystalline
		silica.	
ACGIH	TWA		3 mg/m3
Form of exposure		Respirable fraction	٦.
Remarks		The value is for particulate	
		matter containing	
		asbestos and <1%	
		silica.	,
OSHA Z1A	TWA	omou.	6 mg/m3
US CA OEL	TWA PEL		3 mg/m3
Form of exposu		Respirable dust.	
US CA OEL	TWA PEL	rtespirable dust.	6 mg/m3
Form of exposu		Total dust.	o mg/mo
US CA OEL	TWA PEL	Total dust.	6 ma/m2
OSHA Z1	PEL		6 mg/m3
		Dooninghla fraction	5 mg/m3
Form of exposure		Respirable fraction.	
OSHA Z1	PEL	Tatal donat	15 mg/m3
Form of exposu		Total dust.	
Z3	TWA	15 millions of particles per	
			c foot of air
Form of exposu		Respirable fraction	
Z3	TWA	50 millions of p	
			c foot of air
Form of exposu	re	Total dust.	
Z3	TWA		5 mg/m3
Form of exposu	re	Respirable fraction	١.
Z3	TWA		15 mg/m3
Form of exposu	re	Total dust.	_
Z3	TWA	20 millions of p	articles per
			c foot of air
Z3	TWA		0.8 mg/m3
Remarks		The value is calcul	lated from

Form of exposure

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

NIOSH



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance brown

Physical State granular solid

Bulk Density 27 - 32 lb/ft³

Water solubility 0.00061 g/l

SECTION 10. STABILITY AND REACTIVITY

Hazardous Reactions No hazardous reactions known.

Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

The non-acute information pertains to the technical-grade active ingredient, trifloxystrobin.

Acute Oral Toxicity male/female combined rat: LD50: > 5,050 mg/kg

Acute Dermal Toxicity male/female combined rat: LD50: > 2,000 mg/kg

Acute Inhalation Toxicity male/female combined rat: LC50: > 2.74 mg/l

Exposure time: 4 h

Determined in the form of dust.

(actual)

male/female combined rat: LC50: > 10.96 mg/l

Exposure time: 1 h

Determined in the form of dust. Extrapolated from the 4 hr LC50.

(actual)

Skin Irritation rabbit: Slight irritation.

Eye Irritation rabbit: Moderate eye irritation.

Sensitization guinea pig: Non-sensitizing.

Chronic Toxicity 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.



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NTP None.

IARC

Diatomaceaous earth

61790-53-2

Overall evaluation: 3

OSHA None.

Reproductive & Developmental Toxicity

REPRODUCTION: Trifloxystrobin is not considered a primary reproductive

toxicant in rats.

DEVELOPMENTAL TOXICITY: Trifloxystrobin is not considered a primary developmental toxicant in laboratory animals. Developmental effects were

observed only at doses that caused maternal toxicity.

NeurotoxicityTrifloxystrobin 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. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Retain and dispose of contaminated wash water.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

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

Triple rinse containers. Puncture container to avoid re-use. Do not re-use empty

containers. 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



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SECTION 15. REGULATORY INFORMATION

EPA Registration No. 264-777

US Federal Regulations

TSCA list

Diatomaceaous earth 61790-53-2

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

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

Diatomaceaous earth 61790-53-2 CA, IL, MN, RI

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 Section 3: HAZARDS IDENTIFICATION; Updated Section 11: TOXICOLOGICAL INFORMATION.



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