



## Safety Data Sheet

### FLINT FUNGICIDE

SDS Number: 102000011560

SDS Version 1.5

Revision Date: 02/27/2015

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## SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Product name</b>	FLINT FUNGICIDE
<b>SDS Number</b>	102000011560
<b>Product code (UVP)</b>	06351867
<b>PCP Registration No.</b>	30619
<b>Product Use</b>	Fungicide

Bayer CropScience Inc  
 #200, 160 Quarry Park Blvd, SE  
 Calgary, Alberta T2C 3G3  
 Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)

## SECTION 2. HAZARDS IDENTIFICATION

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

**Emergency Overview** Caution! May cause eye irritation. Avoid contact with eyes. Harmful if absorbed through skin. May cause sensitization by skin contact. Avoid contact with skin and clothing. Wash thoroughly with soap and water after handling.

**Physical State** water-dispersible granules

**Odor** none

**Appearance** brown

**Exposure routes** 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. May cause sensitisation by skin contact. Harmful if absorbed through skin. Avoid contact with skin and clothing.

**Ingestion** Do not take internally.

**Inhalation** Do not breathe dust or spray mist.



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#### Chronic or Delayed Long-Term

This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal. 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.

#### Target Organs

liver

#### Potential Environmental Effect

Toxic to fish and aquatic organisms.

## SECTION 3. 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 4. FIRST AID MEASURES

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	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.
<b>Skin</b>	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.
<b>Ingestion</b>	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.
<b>Inhalation</b>	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.



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**Notes to physician  
Signs and  
Symptoms**

To date no symptoms are known.

**Treatment**

Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

## SECTION 5. FIRE FIGHTING MEASURES

<b>Flash point</b>	not applicable
<b>Autoignition temperature</b>	320 °C / 608 °F
<b>Lower Flammability Limit</b>	not applicable
<b>Upper Flammability Limit</b>	not applicable
<b>Explosiveness</b>	no data available
<b>Fire and Explosion Hazards</b>	In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid) Hydrogen fluoride Carbon monoxide (CO) Nitrogen oxides (NOx)
<b>Suitable extinguishing media</b>	Dry chemical, Foam, Carbon dioxide (CO2), Water
<b>Unsuitable extinguishing media</b>	None known.
<b>Fire Fighting Instructions</b>	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.
<b>Dust explosion class</b>	no data available

## SECTION 6. ACCIDENTAL RELEASE MEASURES



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<b>Personal precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.
<b>Methods for cleaning up</b>	Avoid dust formation. 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. Decontaminate tools and equipment following cleanup. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.
<b>Additional advice</b>	Do not allow to enter soil, waterways or waste water canal.

## SECTION 7. HANDLING AND STORAGE

<b>Handling procedures</b>	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.
<b>Storing Procedures</b>	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container. Store in a place accessible by authorized persons only.
<b>Work/Hygienic Procedures</b>	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. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General Protection</b>	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.
<b>Eye/Face Protection</b>	Safety glasses with side-shields
<b>Hand protection</b>	Chemical resistant nitrile rubber gloves
<b>Body Protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks. Coveralls
<b>Respiratory protection</b>	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

Trifloxystrobin	141517-21-7	OES BCS*	TWA	2.7 mg/m <sup>3</sup>
Diatomaceous earth	61790-53-2	CAD BC OEL	TWA	1.5 mg/m <sup>3</sup>
		CAD BC OEL	TWA	4 mg/m <sup>3</sup>
		CAD ON OEL	TWAEV	10 ppm
		CAD ON OEL	TWAEV	3 ppm
		CAD SK OEL	15 MIN ACL	6 mg/m <sup>3</sup>
		CAD SK OEL	15 MIN ACL	20 mg/m <sup>3</sup>
		CAD SK OEL	8 HR ACL	10 mg/m <sup>3</sup>
		CAD SK OEL	8 HR ACL	3 mg/m <sup>3</sup>
		OEL (QUE)	TWA	6 mg/m <sup>3</sup>
		Sodium sulphate	7757-82-6	OES BCS*

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	brown
<b>Physical State</b>	water-dispersible granules
<b>Odor</b>	none
<b>pH</b>	9 - 11 (1 %) at 23 °C dispersion in water
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Bulk density</b>	27 - 32 lb/ft <sup>3</sup>
<b>Evaporation rate</b>	not applicable
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	not applicable
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	no data available



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**Partition coefficient: n-octanol/water** no data available

**Viscosity** not applicable

#### SECTION 10. STABILITY AND REACTIVITY

**Conditions to avoid** no data available

**Incompatibility** no data available

**Hazardous Decomposition Products** No decomposition products expected under normal conditions of use.

**Hazardous reactions** No dangerous reaction known under conditions of normal use.

#### 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.

**Sensitisation** guinea pig: Sensitising

mouse: Sensitising  
OECD Test Guideline 429, local lymph node assay (LLNA)

**Chronic toxicity** Trifloxystrobin did not cause specific target organ toxicity in experimental animal studies.

#### Assessment Carcinogenicity

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



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**ACGIH**

None.

**NTP**

None.

**IARC**

Diatomaceous earth

61790-53-2

Overall evaluation: 3

**OSHA**

None.

**Reproductive toxicity** Trifloxystrobin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Trifloxystrobin is related to parental toxicity.

**Developmental Toxicity** Trifloxystrobin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Trifloxystrobin are related to maternal toxicity.

**Mutagenicity** Trifloxystrobin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to fish** Oncorhynchus mykiss (rainbow trout)  
LC50: 0.015 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient trifloxystrobin.

**Toxicity to aquatic plants** Desmodemus subspicatus  
Growth rate  
IC50: 0.0053 mg/l  
Exposure time: 72 h  
The value mentioned relates to the active ingredient trifloxystrobin.

**Acute Toxicity to Aquatic Invertebrates** Daphnia magna (Water flea)  
EC50: 0.016 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient trifloxystrobin.

**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.



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**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**

**TDG** Not dangerous goods / not hazardous material

**49CFR** Not dangerous goods / not hazardous material

**IMDG**

UN number	<b>3077</b>
Class	9
Packaging group	III
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN MIXTURE)

**IATA**

UN number	<b>3077</b>
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN MIXTURE )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

**SECTION 15. REGULATORY INFORMATION**

**PCP Registration No.** 30619  
**US Federal Regulations TSCA list**  
None.



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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

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	CA, MN
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#### 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      Instability - 0      Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

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

Reason for Revision: Reviewed and updated for general editorial purposes.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

Revision Date: 02/27/2015

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