SAFETY DATA SHEET



# **COMPASS® FUNGICIDE**

Version 2.0 / USA Revision Date: 03/13/2014 102000011560 Print Date: 06/18/2016

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Trade name COMPASS® FUNGICIDE

Product code (UVP) 06351867

**SDS Number** 102000011560

EPA Registration No. 432-1371

Relevant identified uses of the substance or mixture and uses advised against

**Use** Fungicide

**Restrictions on use**See product label for restrictions.

Information on manufacturer

Bayer Environmental Science 2 T.W. Alexander Drive

Research Triangle PK, NC 27709

**United States** 

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577

Product Information Telephone Number

SDS Information or Request SDSINFO.BCS-NA@bayer.com

#### **SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity (Inhalation): Category 4

Eye irritation : Category 2B Skin sensitisation : Category 1B



Signal word: Warning

**Hazard statements** 

Harmful if inhaled. Causes eye irritation.

May cause an allergic skin reaction.

**Precautionary statements** 

Avoid breathing dust, mist, spray.

Use only outdoors or in a well-ventilated area.

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Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/ physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see supplemental first aid instructions on this label).

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local regulation.

#### Other hazards

No other hazards known.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component NameCAS-No.Average % by WeightTrifloxystrobin141517-21-750.00Diatomaceaous earth61790-53-210.00

#### **SECTION 4: FIRST AID MEASURES**

#### Description of first aid measures

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

**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.

**Skin contact** 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.

**Eye contact** 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.

**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.

Most important symptoms and effects, both acute and delayed

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**Symptoms** To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended. There is no specific antidote.

# **SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media** 

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

Unsuitable None known.

Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO),

Nitrogen oxides (NOx)

Advice for firefighters

Special protective

equipment for fire-fighters

Firefighters should wear NIOSH approved self-contained breathing

apparatus and full protective clothing.

**Further information** 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.

Flash point not applicable

Autoignition temperature 320 °C / 608 °F

Lower explosion limit not applicable

Upper explosion limit not applicable

Explosivity no data available

**Dust explosion class** no data available

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact

with spilled product or contaminated surfaces. Use personal

protective equipment.

Methods and materials for containment and cleaning up

**Methods for cleaning up**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.

Additional advice Do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

#### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

Advice on safe handling 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.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Hygiene measures 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.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

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.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **Control parameters**

Components   CAS-No.   Control parameters   Opdate   Basis	Components	CAS-No.	Control parameters	Update	Basis
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Trifloxystrobin	141517-21-7	2.7 mg/m3 (TWA)		OES BCS*
Diatomaceaous earth	61790-53-2	6 mg/m3 (TWA)	1989	OSHA Z1A
Diatomaceaous earth (Respirable dust.)	61790-53-2	3 mg/m3 (TWA PEL)	09 2006	US CA OEL
Diatomaceaous earth (Total dust.)	61790-53-2	6 mg/m3 (TWA PEL)	09 2006	US CA OEL
Diatomaceaous earth	61790-53-2	6 mg/m3 (TWA PEL)	09 2006	US CA OEL
Diatomaceaous earth (Particulate.)	61790-53-2	27ug/m3 (ST ESL)	07 2011	TX ESL
Diatomaceaous earth (Particulate.)	61790-53-2	40ug/m3 (ST ESL)	07 2011	TX ESL
Diatomaceaous earth (Particulate.)	61790-53-2	2ug/m3 (AN ESL)	07 2011	TX ESL
Diatomaceaous earth (Particulate.)	61790-53-2	4ug/m3 (AN ESL)	07 2011	TX ESL
Diatomaceaous earth	61790-53-2	6 mg/m3 (TWA)	1989	OSHA Z1A
Diatomaceaous earth	61790-53-2	6 mg/m3 (TWA)	06 2008	TN OEL
Diatomaceaous earth (Total dust.)	61790-53-2	6 mg/m3 (TWA PEL)	08 2010	US CA OEL
Diatomaceaous earth (Respirable dust.)	61790-53-2	3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Diatomaceaous earth	61790-53-2	6 mg/m3 (TWA PEL)	08 2010	US CA OEL
Diatomaceaous earth	61790-53-2	2ug/m3 (AN ESL)	03 2012	TX ESL
Diatomaceaous earth	61790-53-2	4ug/m3 (AN ESL)	03 2012	TX ESL
Diatomaceaous earth	61790-53-2	27ug/m3 (ST ESL)	03 2012	TX ESL
Diatomaceaous earth	61790-53-2	40ug/m3 (ST ESL)	03 2012	TX ESL
Sodium sulphate	7757-82-6	10 mg/m3 (TWA)		OES BCS*
Sodium sulphate (Particulate.)	7757-82-6	50ug/m3 (ST ESL)	02 2013	TX ESL
Sodium sulphate (Particulate.)	7757-82-6	5ug/m3 (AN ESL)	02 2013	TX ESL

<sup>\*</sup>OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

# **Exposure controls**

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### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**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.

Hand protection Chemical resistant nitrile rubber gloves

**Eye protection** Safety glasses with side-shields

**Skin and body protection** Wear long-sleeved shirt and long pants and shoes plus socks.

Coveralls

General protective measures 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.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** brown

Physical State water-dispersible granules

**Odor** none

Odour Threshold no data available

**pH** 9 - 11 at 1 %

dispersion in water

Vapor Pressure no data available
Vapor Density (Air = 1) no data available

Bulk density 27 - 32 lb/ft³
Evapouration rate not applicable
Boiling Point no data available
Melting / Freezing Point not applicable

Water solubility dispersible

Minimum Ignition Energyno data availableDecompositionno data available

Partition coefficient: n-

octanol/water

temperature

no data available

Viscosity

not applicable

Flash point not applicable

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Autoignition temperature 320 °C / 608 °F

Lower explosion limit not applicable

Upper explosion limit not applicable

Explosivity no data available

Dust explosion class no data available

#### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity

Thermal decomposition no data available

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid no data available

**Incompatible materials** no data available

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Eye contact, Skin contact, Skin Absorption, Inhalation

**Immediate Effects** 

**Eye** May cause mild irritation to eyes.

**Skin** May cause slight irritation. Prolonged or frequently repeated skin

contact may cause allergic reactions in some individuals. Harmful if

absorbed through skin.

Information on toxicological effects

Acute oral toxicity LD50 (rat) > 5,050 mg/kg

Acute inhalation toxicity LC50 (rat) > 2.7 mg/l

Exposure time: 4 h

Determined in the form of dust.

LC50 (rat) > 10.8 mg/l Exposure time: 1 h

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

Acute dermal toxicity LD50 (rat) > 2,000 mg/kg

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Skin irritationSlight irritation (rabbit)Eye irritationMild eye irritation. (rabbit)SensitisationSensitising (guinea pig)<br/>Sensitising (mouse)

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

#### Assessment repeated dose toxicity

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

## **Assessment Mutagenicity**

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

### **Assessment Carcinogenicity**

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

**ACGIH** 

None.

NTP

None.

**OSHA** 

None.

### Assessment toxicity to reproduction

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.

## Assessment 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.

#### **Further information**

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** LC50 (Rainbow trout (Oncorhynchus mykiss)) 0.015 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient trifloxystrobin.

**Toxicity to aquatic** EC50 (Water flea (Daphnia magna)) 0.016 mg/l

**invertebrates** Exposure time: 48 h

The value mentioned relates to the active ingredient trifloxystrobin.

**Toxicity to aquatic plants** IC50 (Desmodesmus subspicatus) 0.0053 mg/l

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Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient trifloxystrobin.

**Biodegradability** Trifloxystrobin: ; not rapidly biodegradable

**Koc** Trifloxystrobin: Koc: 2377

**Bioaccumulation** Trifloxystrobin: Bioconcentration factor (BCF) 431; Does not

bioaccumulate.

Mobility in soil Trifloxystrobin: Slightly mobile in soils

**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**

#### Waste treatment methods

**Product** 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.

**Contaminated packaging** 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.

RCRA Information Characterization and proper disposal of this material as a special or

hazardous waste is dependent upon Federal, State and local laws and

are the user's responsibility. RCRA classification may apply.

#### **SECTION 14: TRANSPORT INFORMATION**

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

IMDG

UN number 3077
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

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## COMPASS® FUNGICIDE

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(TRIFLOXYSTROBIN MIXTURE)

**IATA** 

UN number 3077
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name 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**

EPA Registration No. 432-1371

**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)

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** 

Diatomaceaous 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

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None.

#### **EPA/FIFRA Information:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

**Hazard statements:** 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.

#### **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:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 03/13/2014

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