

Revision Date: 01/06/2014 Print Date: 05/07/2015

STRIKE® PLUS 50 WDG

EPA Registration Number: 432-1513-59807

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name..... STRIKE® PLUS 50 WDG

EPA Registration No....: 432-1513-59807

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

Description..... Fungicide

Restrictions on use : See product label for

restrictions.

Company information : OHP, Inc.

PO Box 51230 Mainland, PA 19451 (800) 659-6745

TRANSPORTATION EMERGENCY

(24 hours a day) call : Chemtrec: 1-800-424-9300

MEDICAL EMERGENCY (24 hours a day) and Product

Information call : 1-800-356-4647

SDS Information or

Request. : ohp.com

2. HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Skin sensitisation : Category 1B
Skin irritation : Category 2
Eye irritation : Category 2B
Acute toxicity (Inhalation) : Category 3
Acute toxicity (Oral) : Category 4





Signal word : Danger

Hazard statements

May cause an allergic skin reaction.

Causes skin irritation.

Causes eye irritation.

Toxic if inhaled.

Harmful if swallowed.

Precautionary statements

Avoid breathing dust, mist, spray.

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

Wear protective gloves.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

IF ON SKIN : Wash with plenty of soap

If skin irritation or rash occurs: Get medical advice/

Take off contaminated clothing and wash before

euse.

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.

Call a POISON CENTER or doctor/physician.

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

Rinse mouth.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with

local regulation.

Other hazards No other hazards known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by weight
Triadimefon	43121-43-3	41.67
Trifloxystrobin	141517-21-7	8.33
Sodium dodecylbenzenesulfonate	25155-30-0	1.83
Crystalline quartz (respirable)	14808-60-7	0.37

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.

FIRST AID MEASURES continued next page



Special hazards arising from the

substance or mixture. . . . : Dangerous gases are

fire.

evolved in the event of a

SAFETY DATA SHEET

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FIRST AID MEASURES continued	Advice for firefighters		
Inhalation	Special protective equipment for fire-fighters : Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.		
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	 Further information : Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Flash point : not applicable Autoignition temperature .: no data available 		
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.	Lower explosion limit : not applicable Upper explosion limit : not applicable Explosivity : no data available.		
Ingestion			
Most important symptoms and effects, both acute and delayed	6. ACCIDENTAL RELEASE MEASURES		
Symptoms To date no symptoms are known.	Personal precautions, protective equipment and emergency procedures		
Indication of any immediate medical attention and special treatment needed Treatment Appropriate supportive	Precautions : Avoid dust formation. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.		
and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.	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. Clean contaminated floors and objects thoroughly, observing environmental regulations.		
5. FIREFIGHTING MEASURES Extinguishing media	Additional advice : Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact nontarget plants.		
Suitable : Carbon dioxide (CO2), Dry chemical, Foam Unsuitable : None known.	Reference to other sections Information regarding safe handling, see section 7		

Information regarding personal protective equip-

Information regarding waste disposal, see section 13.

ment, see section 8.



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7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling . .: Handle and open container in a manner as to prevent spillage.

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. Before removing gloves clean them with soap and water. 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 and out of the reach of children, preferably in a locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Triadimefon	43121-43-3	0.7 mg/m3 (TWA)		OES BCS*
Triadimefon	43121-43-3	100 ug/m3 (ST ESL)	07 2011	TX ESL
Triadimefon	43121-43-3	10 ug/m3 (AN ESL)	07 2011	TX ESL
Trifloxystrobin	141517-21-7	2.7 mg/m3 (TWA)		OES BCS*
Sodium dodecylbenzenesulfonate (Particulate.)	25155-30-0	50 ug/m3 (ST ESL)	02 2013	TX ESL
Sodium dodecylbenzenesulfonate (Vapor.)	25155-30-0	1000 ug/m3 (ST ESL)	02 2013	TX ESL

Control parameters continued

Components	CAS-No.	Control parameters	Update	Basis
Sodium dodecylbenzenesulfonate (Vapor.)	25155-30-0	100 ug/m3 (AN ESL)	02 2013	TX ESL
Sodium dodecylbenzenesulfonate (Particulate.)	25155-30-0	5 ug/m3 (AN ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Respirable fraction.)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.05 mg/m3 (REL)	2010	NIOSH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	1989	OSHA Z1A
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	06 2008	TN OEL
Crystalline quartz (respirable) (Particulate.)	14808-60-7	0.27 ug/m3 (AN ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Particulate.)	14808-60-7	14 ug/m3 (ST ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable.)	14808-60-7	2.4 millions of particles per cubic foot of air (TWA)	2000	Z3
Crystalline quartz (respirable) (Respirable.)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA)	2000	Z3
Kaolin (Respirable fraction.)	1332-58-7	2 mg/m3 (TWA)	02 2012	ACGIH
Kaolin (Respirable.)	1332-58-7	5 mg/m3 (REL)	2010	NIOSH
Kaolin (Total)	1332-58-7	10 mg/m3 (REL)	2010	NIOSH

EXPOSURE CONTROLS / PERSONAL PROTECTION Control parameters
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Control parameters continued

Components	CAS-No.	Control parameters	Update	Basis
Components	GAS-NU.	parameters	Opuate	Dasis
Kaolin (Respirable fraction.)	1332-58-7	5 mg/m3 (TWA)	06 2008	TN OEL
Kaolin (Total dust.)	1332-58-7	10 mg/m3 (TWA)	06 2008	TN OEL
Kaolin (Particulate.)	1332-58-7	20 ug/m3 (ST ESL)	02 2013	TX ESL
Kaolin (Particulate.)	1332-58-7	2 ug/m3 (AN ESL)	02 2013	TX ESL
Kaolin (Respirable dust.)	1332-58-7	2 mg/m3 (TWA PEL)	08 2010	US CA OEL
Sodium aluminium silicate (Respirable fraction.)	1344-00-9	1 mg/m3 (TWA)	02 2012	ACGIH
Sodium aluminium silicate (Particulate.)	1344-00-9	5 ug/m3 (AN ESL)	02 2013	TX ESL
Sodium aluminium silicate (Particulate.)	1344-00-9	50 ug/m3 (ST ESL)	02 2013	TX ESL
Sodium lignosulphonate (Particulate.)	8061-51-6	5 ug/m3 (AN ESL)	02 2013	TX ESL
Sodium lignosulphonate (Particulate.)	8061-51-6	50 ug/m3 (ST ESL)	02 2013	TX ESL

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls

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 : Chemical resistant gog-

gles must be worn.

Skin and body

protection : Wear long-sleeved shirt

and long pants and shoes plus socks.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : tan

Physical State : water-dispersible

granules

Odor : characteristic

Odour Threshold : no data available

Vapor Pressure : not applicable
Vapor Density (Air = 1) . . . : not applicable

Evapouration rate : not applicable

Boiling Point : not applicable

Melting / Freezing Point . . .: no data available

Water solubility : dispersible

Minimum Ignition Energy . . : no data available

Decomposition

temperature : no data available

Partition coefficient:

n-octanol/water : no data available **Viscosity** not applicable

Flash point : not applicable

Autoignition temperature . . : no data available

 Lower explosion limit
: not applicable

 Upper explosion limit
: not applicable

 Explosivity
: no data available

10. STABILITY AND REACTIVITY

Reactivity

Thermal decomposition . . : no data available

Chemical stability : Stable under normal con-

ditions.

Possibility of hazardous

reactions...... No dangerous reaction

known under conditions of normal use.

Conditions to avoid....: Heat, flames and sparks.

Incompatible materials . . : Strong oxidizing agents,

Acids

Hazardous decomposition

products Hydrogen chloride (HCI)

Amines

Nitrogen oxides (NOx) Carbon monoxide



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11. TOXICOLOGICAL INFORMATION

Exposure routes : Eye contact, Skin contact,

Inhalation, Ingestion

Immediate Effects

Eye Moderate eye irritation.

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

 Ingestion
 ...

 Inhalation
 ...

 Harmful if swallowed

 Harmful if inhaled

Information on toxicological effects

Acute oral toxicity : LD50 (rat) > 500 - 5,000

mg/kg

Acute inhalation toxicity . . : LC50 (rat) > 0.5 - 2.0 mg/l

Exposure time: 4 h
Determined in the form

of dust.

LC50 (rat) > 2.0 - 8.0 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 - 5,000

mg/kg

Skin irritation Moderate skin irritation.

(rabbit)

Eye irritation. Mild eye irritation. (rabbit)

Sensitisation (guinea pig) May cause sensitisation by skin contact.

Assessment repeated dose toxicity

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

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

Assessment Mutagenicity

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

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

Assessment Carcinogenicity

Triadimefon was not carcinogenic in a lifetime feeding study in rats. Triadimefon caused an increased incidence of tumours in mice in the following organ(s): liver. The mechanism that triggers these tumours is not relevant to humans.

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

ACGIH

Crystalline quartz (respirable) 14808-60-7 Group A2

NTF

Crystalline quartz (respirable) 14808-60-7

IARC

Crystalline quartz (respirable) 14808-60-7 Overall evaluation: 1

OSHA

None

Assessment toxicity to reproduction

Triadimefon caused reproduction toxicity in a twogeneration study in rats only at dose levels also toxic to the parent animals. Triadimefon caused reduced fertility, a reduced pup survival.

Trifloxystrobin caused reproduction toxicity in a twogeneration 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

Triadimefon caused developmental toxicity in only at dose levels toxic to the dams. Triadimefon caused an increased incidence of non-specific malformations.

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

Acute toxicity studies have not been performed on this product as formulated.

Acute toxicity studies have been bridged from a similar formulation(s).

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

12. ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Rainbow trout (Oncorhynchus mykiss))

4.08 mg/l

Exposure time: 96 h
The value mentioned relates to the active ingredient triadimefon.

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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

invertebrates : EC50 (Water flea (Daphnia magna)) 7.16 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient triadimefon.

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

Toxicity to aquatic plants . . : IC50 (Pseudokirchneriella subcapitata) 2.01 mg/l Exposure time: 120 h The value mentioned relates to the active ingredient triadimefon.

> IC50 (Desmodesmus subspicatus) 0.0053 mg/l Growth rate; Exposure

time: 72 h

The value mentioned relates to the active ingredient trifloxystrobin.

Biodegradability : Triadimefon: not rapidly

biodegradable

Trifloxystrobin: not rapidly biodegradable

Koc Triadimefon: Koc:150 - 510

Trifloxystrobin: Koc:2377

Bioaccumulation : Triadimefon: Bioconcen-

tration factor (BCF) 31 Does not bioaccumulate.

Trifloxystrobin: Bioconcentration factor (BCF) 431

Does not bioaccumulate.

Mobility in soil : Triadimefon: Moderately

mobile in soils

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.

Drift and runoff from treated areas may be hazardous

to aquatic organisms in adjacent sites.

Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment washwater.

Apply this product as specified on the label.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.

If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging .: Do not re-use empty containers.

Triple rinse containers.

Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.

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.

14. TRANSPORT INFORMATION

49CFR Not dangerous goods /

not hazardous material

IMDG

Packaging group : ||| Marine pollutant YES

Proper shipping name. . . .: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN, TRIADIMEFON MIXTURE)

IATA

Packaging group : |||



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Environm.

Hazardous Mark....: YES

Proper shipping name....: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN, TRIADIMEFON 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.

15. REGULATORY INFORMATION

EPA Registration No. : 432-1513-59807

US Federal Regulations

TSCA list

Sodium

dodecylbenzenesulfonate 25155-30-0

Crystalline quartz

(respirable) 14808-60-7

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

Tula allua afa u

Triadimefon 43121-43-3 25,000lbs

US States Regulatory Reporting

CA Prop65

This product contains a chemical known to the State of California to cause cancer.

Crystalline quartz

(respirable) 14808-60-7

This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

Triadimefon43121-43-3Developmental toxin.Triadimefon43121-43-3Male reproductive toxin.Triadimefon43121-43-3Female reproductive toxin.

US State Right-To-Know Ingredients

Triadimefon 43121-43-3 NJ

Sodium

dodecylbenzenesulfonate 25155-30-0 CA, CT

Crystalline quartz

(respirable) 14808-60-7 MN

Canadian Regulations

Canadian Domestic Substance List

Sodium

dodecylbenzenesulfonate 25155-30-0

Crystalline quartz

(respirable) 14808-60-7

Environmental

CERCLA

Sodium

dodecylbenzenesulfonate 25155-30-0 1,000 lbs

Clean Water Section 307

Priority Pollutants : None.

Safe Drinking Water Act Maximum
Contaminant Levels None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Triadimefon 43121-43-3

Sodium

dodecylbenzenesulfonate 25155-30-0

Crystalline quartz

(respirable) 14808-60-7

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.....: Moderate eye irritation.

Harmful if swallowed, inhaled or absorbed through

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Avoid breathing dust or spray mist.

Avoid contact with skin, eyes and clothing.



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16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 1 Others - none

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

Health - 2 Flammability - 1 Physical Hazard - 1 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........: 01/06/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

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