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BAYLETON® 50 TURF AND ORNAMENTAL FUNGICIDE IN WATER SOLUBLE PACKETS SYSTEMIC FUNGICIDE

Revision Date: 02/08/2021

Version 4.0 / USA 102000012193 Print Date: 02/09/2021

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

Product identifier

Trade name BAYLETON® 50 TURF AND ORNAMENTAL FUNGICIDE IN WATER

SOLUBLE PACKETS SYSTEMIC FUNGICIDE

Product code (UVP) 06107613

102000012193 **SDS Number**

EPA Registration No. 432-1360

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

Use Fungicide

Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer Environmental Science

> A division of Bayer CropScience LP 5000 Centregreen Way, Suite 400

Cary, NC 27513

USA

Email: SDSINFO.BCS-NA@bayer.com **Responsible Department**

Emergency telephone no.

Emergency Telephone

Number (24hr/ 7 days)

Product Information

Telephone Number

1-800-331-2867

1-800-334-7577

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Skin sensitisation, Carcinogenicity: Category 1B

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity(Oral, Inhalation): Category 4

Labelling in accordance with regulation HCS 29CFR §1910.1200







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Signal word: Danger

Hazard statements

May cause an allergic skin reaction.

May cause cancer.

Harmful if swallowed or if inhaled.

Precautionary statements

Avoid breathing dust, mist, spray.

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

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

IF ON SKIN: Wash with plenty of water/ soap.

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.

IF exposed or concerned: Get medical advice/ attention.

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

Rinse mouth

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Store locked up.

Dispose of contents/container in accordance with local regulation.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.

No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight	
Triadimefon	43121-43-3	50.0	
Sodium dodecylbenzenesulfonate	25155-30-0	1.83	
Sodium lignosulphonate	8061-51-6	8.00	
Crystalline quartz (respirable)	14808-60-7	0.37	

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.



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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 Wash off immediately with plenty of water for at least 15 minutes. Take

off contaminated clothing and shoes immediately. 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.

Most important symptoms and effects, both acute and delayed

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.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

Unsuitable High volume water jet

Special hazards arising from the substance or

mixture

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air., In the event of fire the following may be released:, Amines, Nitrogen oxides (NOx), Carbon monoxide (CO), Hydrogen

chloride (HCI)

Advice for firefighters

Special protective equipment for firefighters

Firefighters should wear NIOSH approved self-contained breathing

apparatus and full protective clothing.

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

Auto-ignition temperature

Lower explosion limit

No data available

No data available

No data available

No data available



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Explosivity Dust may form explosive mixture in air.

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.

Methods and materials for containment and cleaning up

Methods for cleaning upAvoid dust formation. Sweep up or vacuum up spillage and collect in

suitable container for disposal. Clean contaminated floors and objects

thoroughly, observing environmental regulations.

Additional advice Use personal protective equipment. If the product is accidentally

spilled, 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. Maintain

exposure levels below the exposure limit through the use of general and

local exhaust ventilation.

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.

Advice on common storage Keep away from food, drink and animal feedingstuffs.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Triadimefon	43121-43-3	0.7 mg/m3 (SK-SEN)		OES BCS*
Crystalline quartz (respirable)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
(Respirable fraction.)				
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (REL)	2016	NIOSH
(Respirable dust.)				
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (TWA)	03 2016	OSHA
Crystalline quartz (respirable)	14808-60-7	0.025 mg/m3 (OSHA_ACT)	03 2016	OSHA
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (PEL)	03 2016	OSHA Z1
(Respirable dust.)				
Crystalline quartz (respirable)	14808-60-7	0.050 mg/m3 (TWA)	01 2019	TN OEL
(Respirable dust.)				
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (TWA PEL)	10 2016	US CA OEL
(Respirable dust.)				
Crystalline quartz (respirable)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
(Respirable.)		(,		
Crystalline quartz (respirable)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
(Respirable.)				

^{*}OES BCS: Internal Bayer AG, Crop Science Division "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.



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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 gloves (barrier laminate, butyl rubber, nitrile

rubber or Viton)

Eye protection Safety glasses with side-shields

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form granular Colour brown

Odour sharp, musty

Odour Threshold No data available pH 7.0 - 8.5 (5 %)

aqueous suspension

Melting point/rangeNo data availableBoiling PointNo data availableFlash pointNo data availableFlammabilityNo data availableAuto-ignition temperatureNo data available

Minimum ignition energy No data available

Self-accelarating decomposition temperature

(SADT)

No data available

Upper explosion limitNo data availableLower explosion limitNo data availableVapour pressureNo data availableEvaporation rateNo data availableRelative vapour densityNo data availableRelative densityNo data available



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Density No data available

Bulk density 0.56 - 0.59 g/cm³ (loose)

Water solubility dispersible

Partition coefficient: n-

octanol/water

No data available

Viscosity, dynamic

Viscosity, kinematic

Oxidizing properties

No data available

No data available

Explosivity Dust may form explosive mixture in air.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition Stable under normal conditions.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

Conditions to avoid Exposure to moisture.

Heat, flames and sparks.

Incompatible materials Strong oxidizing agents, Acids

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Immediate Effects

Skin Harmful if absorbed through skin. Prolonged or frequently repeated

skin contact may cause allergic reactions in some individuals.

IngestionHarmful if swallowed.InhalationHarmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (male Rat) 812 mg/kg



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LD50 (female Rat) 1,470 mg/kg

Acute inhalation toxicity LC50 (male/female combined Rat) > 3.5 mg/l

Exposure time: 4 h

Determined in the form of dust.

(actual)

Acute dermal toxicity LD50 (male/female combined Rat) > 2,000 mg/kg

LD50 (male/female combined Rabbit) > 2,000 mg/kg

Skin corrosion/irritation slight irritation (Rabbit)

Serious eye damage/eye

irritation

Minimally irritating. (Rabbit)

Respiratory or skin Skin: Sensitising (Guinea pig)

sensitisation The value mentioned relates to the active ingredient triadimefon.

Assessment STOT Specific target organ toxicity - single exposure

Triadimefon: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

Triadimefon 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.

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.

ACGIH

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

NTP

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 two-generation study in rats only at dose levels also toxic to the parent animals. Triadimefon caused reduced fertility, a reduced pup survival.

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.



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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).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 4.08 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient triadimefon.

Toxicity to aquatic EC50 (Daphnia magna (Water flea)) 7.16 mg/l

invertebrates Exposure time: 48 h

The value mentioned relates to the active ingredient triadimefon.

Toxicity to aquatic plants IC50 (Raphidocelis subcapitata (freshwater green alga)) 2.01 mg/l

Exposure time: 120 h

The value mentioned relates to the active ingredient triadimefon.

Biodegradability Triadimefon:

Not rapidly biodegradable

Koc Triadimefon: Koc: 150 - 510

Bioaccumulation Triadimefon: Bioconcentration factor (BCF) 31

Does not bioaccumulate.

Mobility in soil Triadimefon: Moderately mobile in soils

Results of PBT and vPvB assessment

PBT and vPvB assessment Triadimefon: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

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.

Drift and runoff from treated areas may be hazardous to aquatic

organisms in adjacent sites.

Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods



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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.

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.

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.

(TRIADIMEFON MIXTURE)

IATA

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

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(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.

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

POISON



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SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-1360

US Federal Regulations

TSCA list

Kaolin 1332-58-7 Sodium lignosulphonate 8061-51-6 Sodium aluminium silicate 1344-00-9 Sodium dodecylbenzenesulfonate 25155-30-0

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

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

US States Regulatory Reporting

CA Prop65

WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Crystalline quartz (respirable) 14808-60-7

WARNING: This product contains a chemical known to the State of California to cause birth defects or

other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Triadimefon 43121-43-3 Male reproductive toxin. Triadimefon 43121-43-3 Developmental toxin. Triadimefon 43121-43-3 Female reproductive toxin.

US State Right-To-Know Ingredients

Triadimefon NJ 43121-43-3 Kaolin 1332-58-7 MN, RI Sodium aluminium silicate 1344-00-9 CA

Sodium dodecylbenzenesulfonate CA, CT, IL, NJ 25155-30-0

Environmental

CERCLA

Yes

Sodium dodecylbenzenesulfonate 25155-30-0

Clean Water Section 307(a)(1)

Safe Drinking Water Act Maximum Contaminant Levels

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



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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: Harmful if swallowed, inhaled or absorbed through the skin.

Prolonged or frequently repeated skin contact may cause allergic

reactions in some individuals.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR Code of Federal Regulations, Title 49 ACGIH US. ACGIH Threshold Limit Values

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods

N.O.S. Not otherwise specified

NTP US. National Toxicology Program (NTP) Report on Carcinogens OECD Organization for Economic Co-operation and Development

TDG Transportation of Dangerous Goods

TWA Time weighted average

UN United Nations

WHO World health organisation

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: The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Reviewed and updated for general editorial purposes.

Revision Date: 02/08/2021

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