



SAFETY DATA SHEET

PATRIOT™ INSECTICIDE CATTLE EAR TAG

Version 1.2

Revision Date 08/14/2017

122000008518

Print Date 08/15/2017

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

Product information

Product Name: PATRIOT™ INSECTICIDE CATTLE EAR TAG
SDS Number: 122000008518

Use : Pesticide

Company

Bayer HealthCare, LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES OF AMERICA
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtrec: (800) 424-9300
BAYER INFORMATION PHONE: (800) 633-3796
INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to national GHS implementation:

Acute toxicity, Oral, Category 4 (H302)

Label elements

Labelling according to national GHS implementation:



Warning

Hazard statements:

H302 Harmful if swallowed.

Precautionary statements:

Prevention:

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.



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Hazardous components which must be listed on the label:

Components:	CAS-No.
Diazinon	333-41-5

Other hazards

Other hazards which do not result in classification:
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Hazardous components

Diazinon

Concentration [Weight percent] 40.0026

CAS-No.: 333-41-5

CAS name: Phosphorothioic acid, O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] ester

GHS Classification:



Acute Tox. 4 H302

Titanium dioxide

Concentration [Weight percent] 0.5

CAS-No.: 13463-67-7

CAS name: Titanium oxide (TiO₂)

Tinuvin P

Concentration [Weight percent] 0.5

CAS-No.: 2440-22-4

CAS name: Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-

GHS Classification:



Acute Tox. 3 H331

contains

PVC - powder (polymer) / PVC - compound

Concentration [Weight percent] 5.73

CAS-No.: 9002-86-2

CAS name: Ethene, chloro-, homopolymer

For the full text of the H-Statements mentioned in this Section, see Section 16.



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4. FIRST AID MEASURES

Description of first aid measures

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Most important acute symptoms/effects

Symptoms: No information available.

Risks: No information available.

Indication of any immediate medical attention and special treatment needed

No information available.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Any

Unsuitable extinguishing media: none

Special hazards arising from the substance or mixture

Specific hazards during firefighting: Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO₂) Hydrogen chloride gas

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Environmental precautions

Methods and materials for containment and cleaning up

Methods for cleaning up: Loose tags (unused or spent) should be collected and stored in a closed container for future use or for disposal.



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Reference to other sections

7. HANDLING AND STORAGE

Precautions for safe handling

Handling:

Avoid dust formation. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

Conditions for safe storage, including any incompatibilities

Specific end use(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
PVC - powder (polymer) / PVC - compound	9002-86-2	TWA (Respirable fraction)	1 mg/m ³	ACGIH
Titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (Total dust)	10 mg/m ³	OSHA P0

Hazardous components without workplace control parameters

Components	CAS-No.
Diazinon	333-41-5
Tinuvin P	2440-22-4

Personal protective equipment

Hand protection

Material : Chemically resistant gloves.

Remarks : None required for consumer use of this product.

Eye protection : Safety glasses
None required for consumer use of this product.

Protective measures : Wear suitable protective equipment.
Please consult label for end-user requirements.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form:	solid
Colour:	orange
Odour:	stinging sulphurous
Melting point/range:	No statements available.
Boiling point/boiling range:	No statements available.
Density:	1.17 g/cm ³ at 20 °C
Bulk density:	No statements available.
Vapour pressure:	No statements available.
Viscosity, dynamic:	No statements available.
Viscosity, kinematic:	No statements available.
Flow time:	No statements available.
Surface tension:	No statements available.
Water solubility:	No statements available.
Solubility(ies):	No statements available.
pH:	No statements available.
Corrosive to metal:	No statements available.
Partition coefficient (n-octanol/water):	Tinuvin P log Pow: 4.2 at 25 °C
Flash point:	Not applicable
Inflammability (solid, gaseous):	No statements available.
Explosion limits:	No statements available.

Other information

Miscibility with water:	Not applicable
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10. STABILITY AND REACTIVITY

Reactivity

No statements available.

Reactions with water / air:

No statements available.

Ignition temperature:

Tinuvin P

560 °C

Burning number:

No statements available.

Chemical stability

No statements available.

Thermal decomposition:

No data available

Dust explosion characteristic number:



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No statements available.

Dust explosion class:

No data available

Impact sensitivity:

No data available

Hazardous reactions:

No data available

Explosive properties:

No statements available.

Possibility of hazardous reactions

deflagration ability:

No statements available.

Smoldering combustion:

No statements available.

Conditions to avoid

No data available

Minimum ignition energy:

No data available

Oxidizing properties:

No statements available.

Incompatible materials

Materials to avoid:

Oxidizing agents

Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen chloride gas

Further information:

The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate (ATE): 1,250 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate (ATE): 100.01 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol



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Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate (ATE): > 5,000 mg/kg
Method: Calculation method

Components:

Diazinon:

Acute oral toxicity : LD50 (Rat): > 300 - 400 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3,600 mg/kg

Titanium dioxide:

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

Tinuvin P:

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg
Method: OECD 423

Acute inhalation toxicity : LC50 (Rat): > 0.59 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: OECD 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD 402

Skin corrosion/irritation

Components:

Diazinon:

Species: Rabbit
Result: Moderate skin irritation

Titanium dioxide:

Result: No skin irritation
Remarks: TiO₂ pigments are not irritant but as with all fine powders can adsorb moisture and natural oils from the surface of the skin during prolonged exposure.

Tinuvin P:

Species: Rabbit
Method: EPA OPP 81-5
Result: No skin irritation
Remarks: Data on a comparable substance



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Serious eye damage/eye irritation

Components:

Diazinon:

Species: Rabbit

Result: Severe eye irritation

Titanium dioxide:

Result: No eye irritation

Remarks: Possibly mechanical irritation

Tinuvin P:

Species: Rabbit

Result: No eye irritation

Remarks: Data on a comparable substance

Respiratory or skin sensitisation

Components:

Titanium dioxide:

Assessment: An acute toxic effect is not expected.

Tinuvin P:

Species: Guinea pig

Method: OECD 406

Result: May cause an allergic skin reaction.

Components:

Titanium dioxide:

Repeated dose toxicity - : An acute toxic effect is not expected.

Assessment

Further information

Components:

Titanium dioxide:

Remarks: As with any nuisance dust, long-term exposure to concentrations of dust above the recommended exposure level may overload lung clearance mechanism and cause adverse lung effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Titanium dioxide:



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- Toxicity to fish : LC50 (Cyprinodon sp. (minnow)): 240 - 370 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Mysidopsis almyra (Opposum shrimp)): 300 - 400 mg/l
Exposure time: 96 h

Ecotoxicology Assessment

- Acute aquatic toxicity : This product has no known ecotoxicological effects.

Tinuvin P:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.17 mg/l
Exposure time: 96 h
Method: OECD 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 24 h
Method: OECD 202
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: Biomass
- NOEC (Desmodesmus subspicatus (green algae)): 33 mg/l
Exposure time: 72 h
Test Type: Biomass
Method: OECD 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.013 mg/l
Exposure time: 21 d
Method: OECD 211
- M-Factor (Chronic aquatic toxicity) : 1
- Toxicity to bacteria : EC20 (activated sludge micro-organism): > 100 mg/l
Exposure time: 3 h
Method: OECD 209

Persistence and degradability

Components:

Titanium dioxide:

- Biodegradability : Remarks: Pigments are practically not biodegradable.

Tinuvin P:

- Biodegradability : Result: Not readily biodegradable.



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Bioaccumulative potential

Components:

Titanium dioxide:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Tinuvin P:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 548 - 895
Exposure time: 70 d
Method: OECD 305

Partition coefficient: n-octanol/water : log Pow: 4.2 (25 °C)

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Do not allow to enter surface waters or groundwater.

Components:

Titanium dioxide:

Additional ecological information : Do not allow to enter surface waters or groundwater.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic.

However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

14. TRANSPORT INFORMATION

US Land transport (CFR)
non-regulated

Sea transport (IMDG)



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non-regulated

Air transport (IATA)

non-regulated

15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

New York City Hazardous Substances

Titanium dioxide 13463-67-7

The components of this product are reported in the following inventories:

TSCA Not On TSCA Inventory
Diazinon

16. OTHER INFORMATION

Full text of H-Statements mentioned in chapters 2 and 3

H302 Harmful if swallowed.

H331 Toxic if inhaled.

Further information



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