

# SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078911810

N/A

**SAFETY DATA SHEET**  
**Corathon Ear Tags**

122000007141

Version 1.0

Revision Date 07/02/2010

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information** CORATHON EAR TAG 20X1

**Product Name:** Corathon Ear Tags  
**MSDS Number:** 122000007141

**Company**

BAYER HEALTHCARE LLC  
Animal Health Division  
12707 Shawnee Mission Parkway  
(West 63rd)  
Shawnee, KS 66216-1846  
UNITED STATES  
(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****Emergency Overview**

**Warning Colour:** green **Form:** solid **Odour:** pungent, sulphurous.  
Inhalation, skin absorption, or ingestion may cause inhibition of the enzyme cholinesterase. Causes eye irritation.

**Hazard Communication (29CFR 1910.1200)**

Eye Contact Skin Absorption Skin Contact

**Acute Inhalation Hazards**

Exposure during the end use of this product is expected to be minimal. May cause inhibition of the enzyme cholinesterase with symptoms of runny nose, tearing, tightness of chest, and wheezing. If poisoning is severe, symptoms of fatigue, nausea, vomiting, convulsions, low blood pressure, cardiac irregularities, and coma may occur. In extreme cases death may occur from respiratory failure. The onset of symptoms may be delayed up to 12 hours; however, complete symptomatic recovery of sublethal poisoning usually occurs within one week once the source of exposure is completely removed. May cause respiratory tract irritation with symptoms of coughing,

sore throat and runny nose.

**Acute Skin Hazards**

Skin absorption of the active ingredient in this product may cause inhibition of the enzyme cholinesterase with symptoms of increased sweating, muscle contractions, tearing and constricted pupils. If poisoning is severe, symptoms of fatigue, nausea, vomiting, convulsions, low blood pressure, cardiac irregularities, and coma may occur. In extreme cases death may occur from respiratory failure. The onset of symptoms may be delayed up to 12 hours however, complete symptomatic recovery of sublethal poisoning usually occurs within one week once the source of exposure is completely removed. May cause irritation with symptoms of reddening and itching.

**Acute Eye Hazards**

Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

**Acute Ingestion Hazards**

May cause inhibition of the enzyme cholinesterase with symptoms of vomiting, diarrhea, abdominal cramping, dizziness and sweating. If poisoning is severe, symptoms of fatigue, convulsions, low blood pressure, cardiac irregularities, loss of reflexes and coma may occur. In extreme cases death may occur from respiratory failure. The onset of symptoms may be delayed up to 12 hours however, complete symptomatic recovery of sublethal poisoning usually occurs within one week once the source of exposure is completely removed.

**Medical Conditions Aggravated by Exposure**

Eye disorders, Skin disorders, Respiratory tract disorders, Kidney disorders

Metal oxide

IARC - Evidence of carcinogenicity in humans: Inadequate data.  
IARC - Evidence of carcinogenicity in animals: Sufficient data.  
IARC - Overall evaluation: Possibly carcinogenic to humans.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Weight percent	Components	CAS-No.
10 - 30%	Coumaphos	56-72-4
30 - 60%	Diazinon	333-41-5
1 - 5%	Metal oxide	

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**4. 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.

**Contact Number:** Use the Bayer Emergency Number in Section 1

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Any

**Specific hazards during fire fighting:** Fire may cause evolution of: Hydrogen cyanide (hydrocyanic acid) nitrogen oxides (NOx) Carbon oxides

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

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

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use personal protective equipment.

**Methods for cleaning up:** Place in closed containers. Label for proper disposal.

**Additional advice:** Avoid dust formation.

**Further Accidental Release Notes**      Avoid dust formation.

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## 7. HANDLING AND STORAGE

**Handling:**

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

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Metal oxide**

- US. ACGIH Threshold Limit Values  
Time Weighted Average (TWA): 10 mg/m<sup>3</sup>
- US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
PEL: 15 mg/m<sup>3</sup> (Total dust.)
- US. ACGIH Threshold Limit Values  
Hazard Designation: Not classifiable as a human carcinogen.

**Coumaphos (56-72-4)**

- US. ACGIH Threshold Limit Values  
Time Weighted Average (TWA): 0.05 mg/m<sup>3</sup> (Inhalable fraction and vapor.)
- US. ACGIH Threshold Limit Values  
Skin designation: (Inhalable fraction and vapor.) Can be absorbed through the skin.
- US. ACGIH Threshold Limit Values  
Hazard Designation: Not classifiable as a human carcinogen.

**Respiratory protection:**

Recommended Filter type: HEPA

**Hand protection:**

Chemically resistant gloves.

**Eye protection:**

Protective goggles

**Other protective measures:**

Wear suitable protective equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	green
Odour:	pungent sulphurous
Density:	1.17 g/cm <sup>3</sup> at 68 °F (20 °C)
Bulk density:	no data available
Vapour pressure:	not applicable



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Water solubility:	insoluble
pH:	no data available
Partition coefficient (n-octanol/water):	no data available
Solubility in organic solvents:	insoluble
Ignition temperature:	no data available

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**10. STABILITY AND REACTIVITY****Conditions to avoid:** no data available**Materials to avoid:** Oxidizing agents**Hazardous reactions:** None known.**Thermal decomposition:**

no data available

**Hazardous decomposition products:**

Hydrogen cyanide (hydrocyanic acid), nitrogen oxides (NOx), Carbon oxides

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**11. TOXICOLOGICAL INFORMATION****Other information on toxicity:**

Metal oxide

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.

**Acute oral toxicity:**

Coumaphos

LD50 rat: 13 mg/kg

Diazinon

LD50 rat: 66 mg/kg

Metal oxide

LD50 rat: &gt; 20,000 mg/kg

**Acute inhalation toxicity:**

Metal oxide

LC50 rat: &gt; 6.8 mg/l, 4 h

**Acute dermal toxicity:**

LD50 rat: &gt; 2,000 mg/kg

**Acute toxicity (other routes of administration):**

Coumaphos  
LD50 intraperitoneal rat: 7500 µg/kg

**Skin irritation:**

rat  
Result: non-irritant

**Eye irritation:**

Diazinon  
rabbit  
Result: Severely irritating

Metal oxide  
possibly mechanical irritation

**Pharmaceutic effects:**

Coumaphos  
Anthelmintics

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**12. ECOLOGICAL INFORMATION**

**General advice:**

Do not allow to enter surface waters or groundwater.

**Toxicity to fish:**

Coumaphos  
LC50 0.18 mg/l  
Duration of test: 96 h

LC50 0.34 mg/l  
Duration of test: 96 h

LC50 0.89 mg/l  
Duration of test: 96 h

LC50 5.3 mg/l  
Duration of test: 96 h

LC50 5.9 mg/l  
Duration of test: 96 h

Metal oxide  
static test: LC0 > 1,000 mg/l  
Test species: *Leuciscus idus* (Golden orfe) Duration of test: 48 h

static test: LC0 > 1,000 mg/l  
Test species: *Phoxinus phoxinus* (Eurasian minnow) Duration of test: 30 d

static test: LC0 3 mg/l  
Test species: *Coregonus autumnalis migratorius* G. (Omul) Duration of test: 30 d

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Acute Fish toxicity: LC50 240 - 370 mg/l

Test species: Sheepshead minnow (*Cyprinodon variegatus*) Duration of test: 96 h**Toxicity to daphnia and other aquatic invertebrates:**

Metal oxide

static test EC0 &gt; 3 mg/l

Test species: *Daphnia magna* (Water flea) Duration of test: 30 d

LC50 300 - 400 mg/l

Test species: *Mysidopsis almyra* (Opposum shrimp) Duration of test: 96 h

Reproduction Test EC100 500 mg/l

Test species: *Daphnia magna* (Water flea) Duration of test: 30 d**Toxicity to algae:**

Coumaphos

Cell multiplication inhibition test EbC50 0.2 mg/l

tested on: *Desmodesmus subspicatus* (Green algae) Duration of test: 72 h

Cell multiplication inhibition test ErC10 0.13 mg/l

tested on: *Desmodesmus subspicatus* (Green algae) Duration of test: 72 h

Cell multiplication inhibition test ErC50 0.61 mg/l

tested on: *Desmodesmus subspicatus* (Green algae) Duration of test: 72 h

Cell multiplication inhibition test EbC10 0.068 mg/l

tested on: *Desmodesmus subspicatus* (Green algae) Duration of test: 72 h

Cell multiplication inhibition test NOEbC 0.115 mg/l

tested on: *Desmodesmus subspicatus* (Green algae)

Cell multiplication inhibition test NOErC 0.115 mg/l

tested on: *Desmodesmus subspicatus* (Green algae)**Toxicity to bacteria:**

Metal oxide

EC0 &gt; 10,000 mg/l

tested on: *Pseudomonas fluorescens*

Duration of test: 24 h

&gt; 5,000 mg/l

tested on: *Escherichia coli***Biodegradability:**

Coumaphos

1 %, 28 d Not readily biodegradable.

Metal oxide

Pigments are practically not biodegradable.



**Bioaccumulation:**

Metal oxide

Bioaccumulation is unlikely.

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**13. DISPOSAL CONSIDERATIONS**

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)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

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**14. TRANSPORT INFORMATION**

Land transport (DOT)

Non-Regulated

Inland waterway transport

Non-Regulated

Railway transport

Non-Regulated

Sea transport (IMDG)

Non-Regulated

Air transport (ICAO / IATA cargo aircraft only)

Non-Regulated

Air transport (ICAO / IATA passenger and cargo aircraft)

Non-Regulated

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**15. REGULATORY INFORMATION**

**FIFRA Status**

**US. Toxic Substances Control Act**

This product is registered with the EPA under FIFRA.

This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

**Components**

Coumaphos

**SARA Section 311/312 Hazard**

Immediate Health Hazard, Delayed Health Hazard

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**Categories**

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

**Components**

Diazinon

**US. EPA CERCLA Hazardous Substances (40 CFR 302) Components**

Coumaphos

Reportable quantity: 10 lbs

Diazinon

Reportable quantity: 1 lbs

**Marine pollutant Components**

Coumaphos

Severe marine pollutant.

Diazinon

Severe marine pollutant.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists**

Weight percent	Components	CAS-No.
10 - 30%	Coumaphos	56-72-4
30 - 60%	Diazinon	333-41-5
1 - 5%	Metal oxide	

**New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists**

Weight percent	Components	CAS-No.
10 - 30%	Coumaphos	56-72-4
30 - 60%	Diazinon	333-41-5

**California Prop. 65**

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**OSHA Hazcom Standard Rating**      Hazardous

**16. OTHER INFORMATION****NFPA 704M Rating**

Health	2
Flammability	2
Reactivity	0
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.