

# SAFETY DATA SHEET



## Co-Ral® Fly & Tick Spray

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

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

#### Product information

**Product Name:** Co-Ral® Fly & Tick Spray  
**SDS Number:** 122000007053

**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 3 (H301)  
Carcinogenicity, Category 1B (H350)  
Acute toxicity, Oral, Category 4 (H302)  
Serious eye irritation, Category 2B (H320)  
Carcinogenicity, Category 2 (H351)

#### Label elements

#### Labelling according to national GHS implementation:



Warning

#### Hazard statements:

H302 Harmful if swallowed.  
H320 Causes eye irritation.  
H351 Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

#### Precautionary statements:

Prevention:  
P201 Obtain special instructions before use.

# SAFETY DATA SHEET



## Co-Ral® Fly & Tick Spray

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

- P202 Do not handle until all safety precautions have been read and understood.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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

### Hazardous components which must be listed on the label:

Components:	CAS-No.
Naphthalene	91-20-3
Coumaphos Technical	56-72-4

### Other hazards

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

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

### Hazardous components

#### Naphthalene

Concentration [Weight percent] 17.795

CAS-No.: 91-20-3

CAS name: Naphthalene

#### GHS Classification:



Acute Tox. 4 H302

Carc. 2 H351

#### Coumaphos Technical

Concentration [Weight percent] 6.15

CAS-No.: 56-72-4

CAS name: Phosphorothioic acid, O-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) O,O-diethyl ester

#### GHS Classification:



Acute Tox. 2 H300

Acute Tox. 3 H311

**M-Factor: 1,000**

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

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**Co-Ral® Fly & Tick Spray**

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

**4. FIRST AID MEASURES**

**Description of first aid measures**

**General advice:** Take off all contaminated clothing immediately.

**If inhaled:** Remove to fresh air. Call a physician immediately.

**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.

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**5. FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media:** High volume water jet

**Special hazards arising from the substance or mixture**

**Specific hazards during firefighting:** Fire may cause evolution of: Sulphur oxides Oxides of phosphorus Chlorine gas Hydrogen chloride gas Carbon oxides

**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.

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**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:** Cover spilled product with liquid-binding material (sand, silica gel, acid

SAFETY DATA SHEET



**Co-Ral® Fly & Tick Spray**

Version 3.0

Revision Date 04/19/2018

12200007053  
Print Date 04/19/2018

binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.

**Reference to other sections**

**Additional advice:** No special precautions required.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling:**

Avoid formation of aerosol. Use 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**

**Storage temperature:** < 35 °C

Do not freeze.

**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
Naphthalene	91-20-3	TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m3	NIOSH REL
		ST	15 ppm 75 mg/m3	NIOSH REL
		TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm 50 mg/m3	OSHA P0
		STEL	15 ppm 75 mg/m3	OSHA P0
Coumaphos Technical	56-72-4	TWA (Inhalable fraction and vapor)	0.05 mg/m3	ACGIH

**Personal protective equipment**

Respiratory protection : Recommended Filter type:  
Organic vapor with prefilter

None required for consumer use of this product.

Hand protection

# SAFETY DATA SHEET



## Co-Ral® Fly & Tick Spray

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

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:	liquid
Colour:	brown
Odour:	solvent-like
Melting point/range:	-12 °C
Boiling point/boiling range:	No statements available.
Density:	1.02 g/cm <sup>3</sup> at 20 °C
Bulk density:	Not applicable
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):	No statements available.
Auto-flammability:	No statements available.
Flash point:	No statements available.
Inflammability (solid, gaseous):	Not applicable
Explosion limits:	No statements available.

#### Other information

Miscibility with water:	emulsifiable
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### 10. STABILITY AND REACTIVITY

#### Reactivity

No statements available.

# SAFETY DATA SHEET



## Co-Ral® Fly & Tick Spray

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

### Reactions with water / air:

No statements available.

### Ignition temperature:

#### Coumaphos Technical

330 °C

### Burning number:

#### Coumaphos Technical

2 at ca. 20 °C Method: VDI 3673 brief ignition and rapid extinction

5 at 100 °C Burning with flames or flying sparks.

fire spread velocity > 45 s/10 cm (EEC Method A.10)

### Chemical stability

No statements available.

### Thermal decomposition:

No data available

### Dust explosion characteristic number:

Not applicable

### Dust explosion class:

Not applicable

### 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

# SAFETY DATA SHEET



## Co-Ral® Fly & Tick Spray

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

Bases

### **Hazardous decomposition products**

Sulphur oxides, Oxides of phosphorus, Chlorine gas, Hydrogen chloride gas, Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

#### **Product:**

Acute oral toxicity : LD50 (Rat): 395 mg/kg

Acute inhalation toxicity : (Rat): > 1.09 mg/l

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg

#### **Components:**

##### **Naphthalene:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

##### **Coumaphos Technical:**

Acute oral toxicity : LD50 (Rat): 13 mg/kg  
Assessment: The component/mixture is highly toxic after single ingestion.

Acute dermal toxicity : LD50 (Rat): 860 mg/kg  
Assessment: The component/mixture is toxic after single contact with skin.

Acute toxicity (other routes of administration) : LD50 (Rat): 7500 µg/kg  
Application Route: intraperitoneal

### **Skin corrosion/irritation**

#### **Product:**

Result: Mild skin irritation

#### **Components:**

##### **Coumaphos Technical:**

Species: Rabbit

Result: No skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Result: Mild eye irritation

# SAFETY DATA SHEET



## Co-Ral® Fly & Tick Spray

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

### Components:

#### **Coumaphos Technical:**

Species: Rabbit

Result: No eye irritation

#### **Respiratory or skin sensitisation**

### Components:

#### **Coumaphos Technical:**

Species: Guinea pig

Result: Does not cause skin sensitisation.

#### **Carcinogenicity**

### Components:

#### **Naphthalene:**

Carcinogenicity - Assessment : Limited evidence of a carcinogenic effect.

#### **IARC**

Group 2B: Possibly carcinogenic to humans

Naphthalene 91-20-3

#### **OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **NTP**

Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3

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## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

### Components:

#### **Naphthalene:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### **Coumaphos Technical:**

Toxicity to fish : LC50: 0.18 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0.000192 mg/l  
Exposure time: 48 h



# SAFETY DATA SHEET



## Co-Ral® Fly & Tick Spray

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

Toxicity to algae : EbC50 (Desmodesmus subspicatus (green algae)): 0.2 mg/l  
Exposure time: 72 h  
Test Type: Cell multiplication inhibition test

ErC50 (Desmodesmus subspicatus (green algae)): 0.61 mg/l  
Exposure time: 72 h  
Test Type: Cell multiplication inhibition test

NOEbC (Desmodesmus subspicatus (green algae)): 0.115 mg/l  
Test Type: Cell multiplication inhibition test

NOErC (Desmodesmus subspicatus (green algae)): 0.115 mg/l  
Test Type: Cell multiplication inhibition test

M-Factor (Acute aquatic toxicity) : 1,000

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### Persistence and degradability

#### Components:

#### Coumaphos Technical:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1 %  
Exposure time: 28 d

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

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

#### Components:

#### Coumaphos Technical:

Adsorbed organic bound halogens (AOX) : Remarks: The product contains organic halogens.

# SAFETY DATA SHEET



## Co-Ral® Fly & Tick Spray

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

### 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

Please note that limited quantities, consumer commodity regulations or other exemptions may apply.

#### Land transport (CFR)

Proper shipping name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC  
Hazard Class or Division: 6.1  
UN/NA Number 3018  
Packaging group III  
Hazard Label(s): Toxic  
Marine pollutant: Marine pollutant

#### Sea transport (IMDG)

UN Number 3018  
Description of the goods ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (COUMAPHOS)  
Class 6.1  
Packaging group III  
IMDG-Labels 6.1  
Marine pollutant yes

#### Air transport (IATA)

UN Number 3018  
Description of the goods ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (COUMAPHOS)  
Class 6.1  
Packaging group III  
Dangerous goods labels 6.1  
Environmentally hazardous yes

### 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

SAFETY DATA SHEET



**Co-Ral® Fly & Tick Spray**

Version 3.0

Revision Date 04/19/2018

12200007053  
Print Date 04/19/2018

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Coumaphos Technical	56-72-4	10	162
n-Butanol	71-36-3	100	100 (F003)

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Coumaphos Technical	56-72-4	10	162

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

Components	CAS-No.	Component TPQ (lbs)
Coumaphos Technical	56-72-4	10000

**SARA 311/312 Hazards** : Immediate Health Hazard  
 Delayed Health Hazard  
 Fire Hazard  
 Carcinogenicity  
 Acute toxicity (any route of exposure)  
 Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Naphthalene 91-20-3 17.795 %

**US State Regulations**

**Massachusetts Right To Know**

Naphthalene 91-20-3  
 Coumaphos Technical 56-72-4

**Pennsylvania Right To Know**

Distillates (petroleum), catalytic reformer fractionator residue, low-boiling 68477-31-6  
 Naphthalene 91-20-3  
 Coumaphos Technical 56-72-4  
 n-Butanol 71-36-3  
 1,2,4-trimethylbenzene 95-63-6

**New York City Hazardous Substances**

Distillates (petroleum), catalytic reformer fractionator residue, low-boiling 68477-31-6  
 Naphthalene 91-20-3  
 Coumaphos Technical 56-72-4  
 n-Butanol 71-36-3  
 Solvent naphtha (petroleum), heavy aromatic 64742-94-5  
 1,2,4-trimethylbenzene 95-63-6  
 ethylene oxide 75-21-8

**California Prop. 65**

WARNING: This product can expose you to chemicals including Naphthalene, ethylene oxide, which is/are known to the State of California to cause cancer, and ethylene oxide, which is/are known to the

# SAFETY DATA SHEET



## Co-Ral® Fly & Tick Spray

Version 3.0

Revision Date 04/19/2018

122000007053  
Print Date 04/19/2018

State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California List of Hazardous Substances

Naphthalene	91-20-3
Coumaphos Technical	56-72-4

### California Permissible Exposure Limits for Chemical Contaminants

Naphthalene	91-20-3
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### The components of this product are reported in the following inventories:

TSCA : Not On TSCA Inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## 16. OTHER INFORMATION

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

H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H320	Causes eye irritation.
H350	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

### 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.