

# SAFETY DATA SHEET



## ROLL UP EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	23.06.2023	50002825	Date of first issue: 23.06.2023

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ROLL UP EC

Other means of identification : Fipronil 2.92% w/w EC

#### Manufacturer or supplier's details

Company : FMC India Private Ltd

Address : TCG Financial Centre, 2nd Floor C-53,  
Bandra Kurla Complex,  
Bandra (E), Mumbai, Bandra Suburban  
Maharashtra-400 098  
India

E-mail address : SDS-Info@fmc.com

Emergency telephone : 022 6704 5504/5404  
000-800-100-7141 (CHEMTREC)

Medical Emergency Number : 022 6704 5504/5404

#### Recommended use of the chemical and restrictions on use

Recommended use : Can be used as insecticide only.

Restrictions on use : Use as recommended by the label.

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### 2. HAZARDS IDENTIFICATION

#### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

##### Classification

Flammable liquid

##### GHS Classification

Flammable liquids : Category 4

Acute toxicity (Oral) : Category 5

Acute toxicity (Inhalation) : Category 5

Acute toxicity (Dermal) : Category 5

Skin corrosion/irritation : Category 2

Carcinogenicity : Category 2

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Specific target organ toxicity - repeated exposure : Category 1

Aspiration hazard : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H303 + H313 + H333 May be harmful if swallowed, in contact with skin or if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P203 Obtain, read and follow all safety instructions before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
P301 + P316 IF SWALLOWED: Get emergency medical help immediately.  
P302 + P352 + P317 IF ON SKIN: Wash with plenty of water. Get medical help.  
P304 + P317 IF INHALED: Get medical help.  
P318 IF exposed or concerned, get medical advice.  
P331 Do NOT induce vomiting.  
P332 + P317 If skin irritation occurs: Get medical help.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P391 Collect spillage.

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### Storage:

P403 Store in a well-ventilated place.  
P405 Store locked up.

### Disposal:

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

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
fipronil (ISO)	120068-37-3	2.92
Distillates (petroleum), hydro- treated light; Kerosine — unspecified	64742-47-8	> 25
tributyl phosphate	126-73-8	> 1 - < 25
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched	68412-54-4	> 0.1 - < 2.5
Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates	68412-53-3	> 2.5 - < 25
calcium bis(tetrapropylenebenzenesulphonate)	11117-11-6	> 0.1 - < 2.5

## 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

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If symptoms persist, call a physician.  
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed : May be harmful if swallowed, in contact with skin or if inhaled.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Suspected of causing cancer.  
Causes damage to organs through prolonged or repeated exposure.

Notes to physician : Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Sulfur oxides  
Hydrogen fluoride  
Hydrogen chloride

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Neutralize with chalk, alkali solution or ammonia.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, ver-

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miculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.  
Keep in a well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Do not store near acids.
- Further information on storage stability : No decomposition if stored and applied as directed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydro-treated light; Kerosine — unspecified	64742-47-8	TWA (Mist)	5 mg/m <sup>3</sup>	IN OEL
		STEL (Mist)	10 mg/m <sup>3</sup>	IN OEL
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
tributyl phosphate	126-73-8	TWA	0.2 ppm 2.5 mg/m <sup>3</sup>	IN OEL
		TWA (Inhalable fraction and vapor)	5 mg/m <sup>3</sup>	ACGIH

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### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
tributyl phosphate	126-73-8	Acetylcholinesterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Butyrylcholinesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI

### Personal protective equipment

- Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Form : liquid
- Color : colorless, to, light yellow
- pH : 3.1 - 3.3 (23 °C)  
In a 1% aqueous dispersion
- Melting point/freezing point : not determined
- Boiling point/boiling range : not determined

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Flash point	: $\geq 80\text{ }^{\circ}\text{C}$
Self-ignition	: not determined
Density	: $0.86\text{ g/cm}^3$ ( $20\text{ }^{\circ}\text{C}$ )
Solubility(ies) Water solubility	: dispersible
Partition coefficient: n-octanol/water	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Particle size	: Not applicable

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### 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed. Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: Stable under recommended storage conditions.

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

May be harmful if swallowed, in contact with skin or if inhaled.

#### Product:

Acute oral toxicity	: LD50(Rat): $> 2,000\text{ mg/kg}$
Acute inhalation toxicity	: LC50(Rat): $> 5.03\text{ mg/l}$ Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50(Rat): $> 2,000\text{ mg/kg}$

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**Components:****fipronil (ISO):**

Acute oral toxicity	:	LD50 (Rat, male and female): 97 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): 0.682 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit, male and female): 354 mg/kg

**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Acute oral toxicity	:	LD50 (Rat, male and female): > 15,000 mg/kg Method: OECD Test Guideline 423 Remarks: Based on data from similar materials
Acute inhalation toxicity	:	LC0 (Rat, male and female): > 5.28 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Remarks: Based on data from similar materials no mortality
Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials

**tributyl phosphate:**

Acute oral toxicity	:	LD50 (Rat, male and female): 1,552 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 4.242 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is minimally toxic after short term inhalation.
Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 3,100 mg/kg

**Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Acute oral toxicity	:	LD50 (Rat, male and female): 1,980 mg/kg
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**Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates:**

Acute oral toxicity	:	LD50 (Rat): > 1,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg

**calcium bis(tetrapropylenebenzenesulphonate):**

Acute oral toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox-
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Acute dermal toxicity : LD50 (Rat, male and female): > 1,000 - < 1,600 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Species : Rabbit  
Result : Irritating to skin.

Remarks : May cause skin irritation in susceptible persons.

#### **Components:**

##### **fipronil (ISO):**

Species : Rabbit  
Result : slight irritation

##### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Assessment : Repeated exposure may cause skin dryness or cracking.

##### **tributyl phosphate:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Irritating to skin.

##### **Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Species : Rabbit  
Method : Draize Test  
Result : Skin irritation

##### **Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates:**

Result : Skin irritation

##### **calcium bis(tetrapropylenebenzenesulphonate):**

Species : Rabbit  
Result : Irritating to skin.  
Remarks : Based on data from similar materials

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

Not classified based on available information.

#### **Product:**

Species : Rabbit  
Result : No eye irritation

Remarks : Vapors may cause irritation to the eyes, respiratory system

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and the skin.

### **Components:**

#### **fipronil (ISO):**

Species	: Rabbit
Result	: No eye irritation

#### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: No eye irritation

#### **tributyl phosphate:**

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: slight irritation

#### **Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Species	: Rabbit
Method	: Draize Test
Result	: Irreversible effects on the eye

#### **Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates:**

Result	: Irreversible effects on the eye
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#### **calcium bis(tetrapropylenebenzenesulphonate):**

Species	: Rabbit
Result	: Irreversible effects on the eye
Remarks	: Based on data from a similar product.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

### **Product:**

Test Type	: Buehler Test
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

### **Components:**

#### **fipronil (ISO):**

Species	: Guinea pig
Result	: Not a skin sensitizer.

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**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Test Type	: Maximization Test
Routes of exposure	: Intradermal
Species	: Guinea pig
Result	: Does not cause skin sensitization.
Remarks	: Based on data from similar materials

**tributyl phosphate:**

Test Type	: Open epicutaneous test
Species	: Guinea pig
Result	: Not a skin sensitizer.

**Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Test Type	: Magnussen-Kligman test
Species	: Guinea pig
Result	: Does not cause skin sensitization.

**Poly(oxy-1,2-ethanediyl),  $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy-, branched, phosphates:**

Result	: Substance is not considered to be potential skin sensitiser.
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**calcium bis(tetrapropylenebenzenesulphonate):**

Test Type	: Maximization Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse (male and female) Application Route: Intraperitoneal injection Result: negative Remarks: Based on data from similar materials

**tributyl phosphate:**

Genotoxicity in vitro	: Test Type: reverse mutation assay Metabolic activation: with and without metabolic activation Result: negative  Test Type: gene mutation test Test system: Chinese hamster ovary cells
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Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration.  
Species: Rat (male and female)  
Application Route: Oral  
Result: negative

### **Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Test Type: gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

### **calcium bis(tetrapropylenebenzenesulphonate):**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Result: negative  
Remarks: Based on data from similar materials

### **Carcinogenicity**

Suspected of causing cancer.

### **Components:**

#### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Species : Rat, male  
Application Route : inhalation (vapor)  
Exposure time : 105 weeks  
NOAEC : 0.138 mg/l  
Result : positive  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : The observed tumors do not appear to be relevant for men.

### **tributyl phosphate:**

Species : Rat, male and female

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Application Route : Oral  
NOAEL : 700 ppm  
Result : positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

### **Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Effects on fertility : Test Type: Fertility  
Species: Rat, male and female  
Application Route: inhalation (vapor)  
Duration of Single Treatment: 14 Weeks  
General Toxicity Parent: NOAEC: 2.2 mg/l  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 500 mg/kg body weight  
Teratogenicity: NOAEL: 2,000 mg/kg body weight  
Remarks: Developmental effects are a consequence of maternal toxicity.

#### **tributyl phosphate:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Method: EPA OTS 798.4700  
Result: negative

Effects on fetal development : Test Type: Pre-natal  
Species: Rabbit  
General Toxicity Maternal: NOAEL: > 150 mg/kg bw/day  
Developmental Toxicity: NOAEL: > 150 mg/kg bw/day  
Method: EPA OTS 798.4900  
Result: negative

### **Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Effects on fetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOEL: 50 mg/kg body weight  
Developmental Toxicity: NOAEL: 50 mg/kg body weight

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Symptoms: Fetal abnormalities.  
Result: negative  
Remarks: Based on data from similar materials

Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Dermal  
Developmental Toxicity: NOAEL: 500 mg/kg body weight  
Symptoms: Fetal abnormalities.  
Result: negative  
Remarks: Based on data from similar materials

**calcium bis(tetrapropylenebenzenesulphonate):**

Effects on fertility : Test Type: Three-generation study  
Species: Rat, male and female  
Application Route: Oral  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
Symptoms: Maternal effects.  
Result: negative  
Remarks: Based on data from similar materials

**STOT-single exposure**

Not classified based on available information.

**Components:****Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure.

**Components:****fipronil (ISO):**

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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### Repeated dose toxicity

#### Components:

##### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Species	: Rat
NOAEL	: >= 200 ppm
Application Route	: inhalation (vapor)
Exposure time	: 13 weeks
Remarks	: Based on data from similar materials

##### **tributyl phosphate:**

Species	: Mouse, male and female
NOEL	: 500 ppm
Application Route	: Oral - feed
Exposure time	: 90 d
Remarks	: Effects are of limited toxicological significance.

##### **calcium bis(tetrapropylenebenzenesulphonate):**

Species	: Rat, male and female
NOAEL	: 50 mg/kg bw/day
LOAEL	: 250 mg/kg bw/day
Application Route	: Oral - feed
Exposure time	: 12 weeks
Remarks	: Effects are of limited toxicological significance. Based on data from similar materials

### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Components:

##### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

### Further information

#### Product:

Remarks	: Solvents may degrease the skin.
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.09 mg/l Exposure time: 48 h

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### Components:

#### **fipronil (ISO):**

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.0805 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- LC50 (Oncorhynchus mykiss (rainbow trout)): 0.248 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- LC50 (Cyprinus carpio (Carp)): 0.34 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): 0.19 mg/l  
Exposure time: 48 h
- LC50 (Mysidopsis bahia (opossum shrimp)): 0.00014 mg/l  
Exposure time: 96 h  
Test Type: static test
- Toxicity to algae/aquatic plants : NOEC ( Desmodesmus subspicatus (green algae)): >= 0.04 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- ErC50 ( Desmodesmus subspicatus (green algae)): 0.068 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 1,000
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 0.01 mg/l  
Exposure time: 21 d  
Test Type: flow-through test
- M-Factor (Chronic aquatic toxicity) : 10,000
- Toxicity to soil dwelling organisms : LC50: >1000  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)
- Toxicity to terrestrial organisms : LC50: 48 mg/kg  
Exposure time: 22 d  
Species: Colinus virginianus (Bobwhite quail)
- LC50: > 5,000 mg/kg  
Exposure time: 22 d  
Species: Anas platyrhynchos (Mallard duck)



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**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

- Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Remarks: water accommodated fractions (WAF)
- Toxicity to daphnia and other aquatic invertebrates : LL50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: water accommodated fractions (WAF)
- Toxicity to algae/aquatic plants : NOELR ( Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- EL50 ( Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EL50 (Tetrahymena pyriformis): > 1,000 mg/l  
Exposure time: 48 h  
Method: QSAR
- Toxicity to fish (Chronic toxicity) : NOELR: 0.173 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: QSAR  
Remarks: No toxicity at the limit of solubility.  
water accommodated fractions (WAF)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 1.22 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: QSAR  
Remarks: No toxicity at the limit of solubility.  
water accommodated fractions (WAF)

**tributyl phosphate:**

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Gammarus sp.): 4.6 mg/l  
Exposure time: 48 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1.3 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

**Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 7.9 mg/l  
Exposure time: 96 h

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**Poly(oxy-1,2-ethanediyl),  $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy-, branched, phosphates:**

Toxicity to fish	:	LC50 (Fish): > 1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (algae): > 1 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	Remarks: No data available

**calcium bis(tetrapropylenebenzenesulphonate):**

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 31.6 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 62 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.5 mg/l Exposure time: 96 h Remarks: Based on data from similar materials  EC50 (Raphidocelis subcapitata (freshwater green alga)): 29 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to fish (Chronic toxicity)	:	NOEC: 0.23 mg/l Exposure time: 72 d Species: Oncorhynchus mykiss (rainbow trout) Test Type: flow-through test Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1.18 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: flow-through test Remarks: Based on data from similar materials

**Persistence and degradability****Components:****fipronil (ISO):**

Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 47 % Exposure time: 28 d
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Method: OECD Test Guideline 301B

**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Biodegradability : Concentration: 50 mg/l  
Result: Readily biodegradable.  
Biodegradation: 89.9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301

**tributyl phosphate:**

Biodegradability : Result: Readily biodegradable.

**Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

**Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates:**

Biodegradability : Result: Inherently biodegradable.

**calcium bis(tetrapropylenebenzenesulphonate):**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2.9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

**Bioaccumulative potential****Components:****fipronil (ISO):**

Partition coefficient: n- : log Pow: 4  
octanol/water

**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Bioaccumulation : Bioconcentration factor (BCF): 144.3  
Method: QSAR

**tributyl phosphate:**

Bioaccumulation : Species: Oryzias latipes (Orange-red killifish)  
Bioconcentration factor (BCF): 21 - 35

Partition coefficient: n- : log Pow: 4  
octanol/water

**Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.  
Based on data from similar materials

Partition coefficient: n- : log Pow: 5.39 (20 °C)

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octanol/water

### **Poly(oxy-1,2-ethanediyl), $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy-, branched, phosphates:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

### **Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## 14. TRANSPORT INFORMATION

### **International Regulations**

#### **UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Fipronil)  
Class : 9  
Packing group : III  
Labels : 9

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Fipronil)  
Class : 9  
Packing group : III  
Labels : Miscellaneous

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Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fipronil)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory  
TSCA : Product contains substance(s) not listed on TSCA inventory.  
AIIC : Not in compliance with the inventory  
DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.  
fipronil (ISO)  
ENCS : Not in compliance with the inventory  
ISHL : Not in compliance with the inventory  
KECI : On the inventory, or in compliance with the inventory  
PICCS : Not in compliance with the inventory  
IECSC : Not in compliance with the inventory  
NZIoC : Not in compliance with the inventory

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TECI : Not in compliance with the inventory

### 16. OTHER INFORMATION

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#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
IN OEL : India. Permissible levels of certain chemical substances in work environment.

ACGIH / TWA : 8-hour, time-weighted average  
IN OEL / TWA : Time-Weighted Average Concentration (TWA) (8 hrs.)  
IN OEL / STEL : Short-term exposure Limit STEL (15 min)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to

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