

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## DURENTIS™ Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: 01/16/2024
1.2	07/09/2024	50002829	Date of first issue: 06/28/2023

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### SECTION 1. IDENTIFICATION

#### Product identifier

**Product name** DURENTIS™ Insecticide

#### Other means of identification

**Product code** 50002829

#### 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.

#### Details of the supplier of the safety data sheet

**Manufacturer** FMC Corporation  
2929 Walnut Street  
Philadelphia PA 19104  
USA  
(215) 299-6000  
SDS-Info@fmc.com

**Supplier Address** FMC Corporation  
2929 Walnut Street  
Philadelphia PA 19104  
USA

#### Emergency telephone

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:  
U.S.A. & Canada: +1 800 / 331-3148  
All other countries: +1 651 / 632-6793 (Collect)

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### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a hazardous substance or mixture.

#### **GHS label elements**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

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### Other hazards

Very toxic to aquatic life.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Chlorantraniliprole	500008-45-7	47.85
Residues, petroleum, catalytic re-former fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	>= 1 - < 5

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
If experiencing any discomfort, immediately remove from exposure. Get medical attention if discomfort does not disappear.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash contaminated clothing before re-use.  
Wash off immediately with plenty of water for at least 15 minutes.  
Get medical attention if irritation develops and persists.
- 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 : Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : None known.
- Protection of first-aiders : First Aid responders should pay attention to self-protection

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and use the recommended protective clothing  
Avoid inhalation, ingestion and contact with skin and eyes.  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet  
Do not spread spilled material with high-pressure water streams.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Bromine compounds  
Chlorine compounds  
Hydrogen cyanide  
Hydrogen chloride  
Sulfur oxides
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
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.
- Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.
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- Only qualified personnel equipped with suitable protective equipment may intervene.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.  
Collect as much of the spill as possible with a suitable absorbent material.  
Pick up and transfer to properly labeled containers.  
Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : The product is stable under normal conditions of warehouse storage.  
Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.
- Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of)	Control parameters / Permissible	Basis
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		exposure)	concentration	
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0

### 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 : Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.  
In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
Do not inhale aerosol.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Form : suspension

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Color : off-white

Odor : mild aromatic

Odor Threshold : No data available

pH : 5.6  
Concentration: 100 %  
Method: CIPAC MT 75.3

5.2  
Method: CIPAC MT 75.3  
(at 1% suspension)

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : Method: Pensky-Martens closed cup - PMCC  
No flash up to boiling point.

Evaporation rate : No data available

Flammability (liquids) : Not expected to be ignitable

Self-ignition : > 1112 °F / > 600 °C

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : Not available for this mixture.

Relative vapor density : No data available

Relative density : ca. 1.26 (68 °F / 20 °C)  
Method: Regulation (EC) No. 440/2008, Annex, A.3

Density : ca. 1.26 g/cm<sup>3</sup> (68 °F / 20 °C)

Solubility(ies)  
Water solubility : dispersible

Partition coefficient: n-octanol/water : Not applicable

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Autoignition temperature	:	No data available
Decomposition temperature	:	Thermal decomposition can lead to release of irritating gases and vapors.
Viscosity		
Viscosity, dynamic	:	458 - 724 mPa.s (68 °F / 20 °C) Method: CIPAC MT 192
		436 - 708 mPa.s (104 °F / 40 °C) Method: CIPAC MT 192
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Surface tension	:	57.41 mN/m, 5 g/l, 68 °F / 20 °C
Molecular weight	:	Not applicable
Metal corrosion rate	:	ca. 0.04 mm/a
Particle size	:	Not applicable

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### SECTION 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.
Conditions to avoid	:	Avoid extreme temperatures. Avoid formation of aerosol.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	Stable under recommended storage conditions.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Skin contact

#### Acute toxicity

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

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### **Product:**

- Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.16 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: Irritation  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality

### **Components:**

#### **Chlorantraniliprole:**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Remarks: Information source: Internal study report
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Information source: Internal study report
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: Information source: Internal study report

#### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg



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### Skin corrosion/irritation

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

#### Product:

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 404  
Result : slight or no skin irritation.  
GLP : yes

#### Components:

##### Chlorantraniliprole:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes  
Remarks : Information source: Internal study report

### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Remarks : No data available

### Serious eye damage/eye irritation

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

#### Product:

Species : Rabbit  
Result : Slight or no eye irritation  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 405  
GLP : yes

#### Components:

##### Chlorantraniliprole:

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : yes  
Remarks : Information source: Internal study report

### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Result : Eye irritation

### Respiratory or skin sensitization

#### Skin sensitization

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

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### Respiratory sensitization

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

#### Product:

Test Type : Local lymph node assay (LLNA)  
Species : mice  
Assessment : Did not cause sensitization on laboratory animals.  
Method : OECD Test Guideline 429  
GLP : yes

#### Components:

##### Chlorantraniliprole:

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.  
GLP : yes  
Remarks : Information source: Internal study report

Test Type : Local lymph node assay (LLNA)  
Species : mice  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.

### Germ cell mutagenicity

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

#### Product:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Micronucleus test  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative  
GLP: yes

#### Components:

##### Chlorantraniliprole:

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

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476

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Genotoxicity in vivo : Result: negative  
: Test Type: Micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Carcinogenicity

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

#### Components:

##### Chlorantraniliprole:

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 2 Years  
NOAEL : 805 - 1,076 mg/kg bw/day  
Method : OECD Test Guideline 453  
Result : negative

Species : Mouse, male and female  
Application Route : Oral  
Exposure time : 18 month(s)  
NOAEL : 158 - 1,155 mg/kg bw/day  
Method : OECD Test Guideline 453  
Result : negative

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**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** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

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

#### Components:

##### Chlorantraniliprole:

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
General Toxicity Parent: NOAEL: 20,000 ppm  
General Toxicity F1: NOAEL: 20,000 ppm

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Method: OECD Test Guideline 416  
Result: negative

Effects on fetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
Duration of Single Treatment: 6 - 20 Days  
General Toxicity Maternal: NOEL: 1,000 mg/kg bw/day  
Developmental Toxicity: NOEL: 1,000 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT-single exposure

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

#### Components:

##### Chlorantraniliprole:

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

### STOT-repeated exposure

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

#### Components:

##### Chlorantraniliprole:

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

### Repeated dose toxicity

#### Components:

##### Chlorantraniliprole:

Species : Rat, male and female  
NOEL : 1188 - 1526 mg/kg  
Application Route : Oral  
Exposure time : 90 Days  
Method : OECD Test Guideline 408

### Aspiration toxicity

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

#### Product:

The mixture does not have properties associated with aspiration hazard potential.

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### Components:

#### **Chlorantraniliprole:**

The substance does not have properties associated with aspiration hazard potential.

### **Further information**

#### Product:

Remarks : No data available

### Components:

#### **Chlorantraniliprole:**

Remarks : Information presented in this Section conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Product:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 21 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.015 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 16 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Raphidocelis subcapitata (freshwater green alga)): 7.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

LOEC (Raphidocelis subcapitata (freshwater green alga)): 16 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207  
GLP: yes

Method: OECD Test Guideline 216  
Remarks: No significant adverse effect on Nitrogen mineralization.

Method: OECD Test Guideline 217  
Remarks: No significant adverse effect on Carbon mineralization.

Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): > 334 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Method: OECD Test Guideline 213  
GLP: yes

LD50 (*Apis mellifera* (bees)): > 313 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Method: OECD Test Guideline 214  
GLP: yes

LD50 (*Colinus virginianus* (Bobwhite quail)): > 4,179 mg/kg  
End point: Acute oral toxicity  
Method: OECD Test Guideline 223  
GLP: yes

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

### Components:

#### Chlorantraniliprole:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 13.8 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
Remarks: Information source: Internal study report

LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 15.1 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Information source: Internal study report

LC50 (*Cyprinodon* sp. (minnow)): > 12 mg/l  
Exposure time: 96 h

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Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (*Hyalella azteca* (Amphipod)): 0.26 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

LC50 (*Ceriodaphnia dubia* (water flea)): 0.0067 - 0.011 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 2 mg/l  
Exposure time: 120 h

NOEC (*Lemna gibba* (duckweed)): 2 mg/l  
Exposure time: 14 d

ErC50 (*Selenastrum capricornutum* (green algae)): > 2 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (*Cyprinodon variegatus* (sheepshead minnow)): 1.28 mg/l  
Exposure time: 36 d

NOEC (*Oncorhynchus mykiss* (rainbow trout)): 0.110 mg/l  
Exposure time: 28 d  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0.00447 mg/l  
Exposure time: 21 d  
Method: US EPA Test Guideline OPPTS 850.1300  
GLP: yes

Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207  
GLP: yes

Remarks: No significant adverse effect on Nitrogen mineralization.  
No significant adverse effect on Carbon mineralization.

Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): > 4.0 µg/bee  
Exposure time: 72 h  
End point: Acute contact toxicity  
Remarks: Active substance dissolved in acetone

LD50 (*Apis mellifera* (bees)): > 0.005 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Remarks: Active substance dissolved in water

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LD50 (*Apis mellifera* (bees)): > 104.1 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Remarks: Active substance dissolved in acetone

LD50 (*Apis mellifera* (bees)): > 0.0274 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Remarks: Active substance dissolved in water

LD50 (*Poephila guttata* (zebra finch)): > 2,250 mg/kg

### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

- Toxicity to fish : LC50 (*Zebra fish*): > 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- EC10 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (*Daphnia magna* (Water flea)): > 10 - 100 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### Persistence and degradability

#### Product:

- Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

#### Components:

##### **Chlorantraniliprole:**

- Biodegradability : Result: Not readily biodegradable.



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Stability in water : Degradation half life (DT50): 10 d (25 °C) pH: 9  
Degradation half life (DT50): 0.3 d (50 °C) pH: 9  
Degradation half life (DT50): > 31 d pH: 5

### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

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

### **Bioaccumulative potential**

#### **Product:**

Bioaccumulation : Remarks: No data is available on the product itself.  
Remarks: No data available

#### **Components:**

##### **Chlorantraniliprole:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 14  
Method: OECD Test Guideline 305  
GLP: yes  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2.77 (68 °F / 20 °C)  
pH: 4  
log Pow: 2.86 (68 °F / 20 °C)  
pH: 7  
log Pow: 2.80 (68 °F / 20 °C)  
pH: 9

### **Mobility in soil**

#### **Product:**

Distribution among environmental compartments : Remarks: No data is available on the product itself.

#### **Components:**

##### **Chlorantraniliprole:**

Distribution among environmental compartments : Koc: 362 ml/g, log Koc: 2.55  
Remarks: Mobile in soils

Stability in soil : Remarks: Very persistent in soil.

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### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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.

#### Components:

#### **Chlorantraniliprole:**

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.

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## SECTION 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.  
Do not re-use empty containers.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### **UNRTDG**

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

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### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Chlorantraniliprole)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
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.  
(Chlorantraniliprole)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR Road

UN/ID/NA number : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Chlorantraniliprole)  
Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : yes  
Remarks : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

### Special precautions for user

Remarks : 49CFR: no dangerous good in non-bulk packaging

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.

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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

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Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ethylbenzene	100-41-4	100	100 (F003)

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

**SARA 311/312 Hazards** : No SARA Hazards

**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.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

propane-1,2-diol	57-55-6	>= 1 - < 5 %
glycerol	56-81-5	>= 1 - < 5 %

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

ethylbenzene	100-41-4	>= 0 - < 0.1 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

ethylbenzene	100-41-4	>= 0 - < 0.1 %
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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

glycerol	56-81-5
Quartz (SiO <sub>2</sub> )	14808-60-7

#### Pennsylvania Right To Know

Chlorantraniliprole	500008-45-7
water	7732-18-5
propane-1,2-diol	57-55-6
glycerol	56-81-5
Distillates (petroleum), hydro- treated light; Kerosine — unspecified	64742-47-8

#### Maine Chemicals of High Concern

Palygorskite	12174-11-7
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Quartz (SiO<sub>2</sub>) 14808-60-7

### Vermont Chemicals of High Concern

Palygorskite 12174-11-7  
ethylbenzene 100-41-4

### Washington Chemicals of High Concern

Palygorskite 12174-11-7  
ethylbenzene 100-41-4

### California Prop. 65

WARNING: This product can expose you to chemicals including Distillates (petroleum), hydro-treated light; Kerosine — unspecified, Quartz (SiO<sub>2</sub>), ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California Permissible Exposure Limits for Chemical Contaminants

glycerol 56-81-5

### 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 chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.
- ENCS : Not in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : Not 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
- TECI : Not in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

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

### FIFRA information

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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 criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

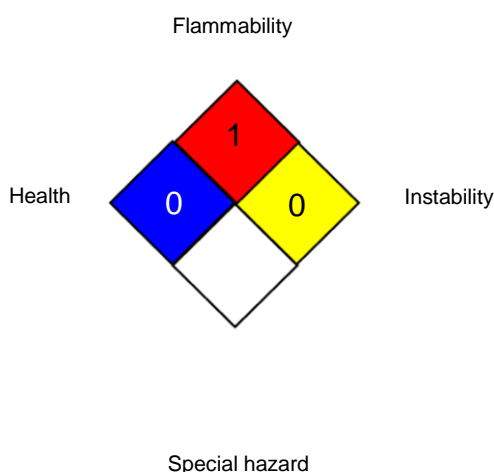
### No Signal Word Required

When used as directed, this product does not present a hazard to humans or domestic animals.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



0 No health threat, 1 Slightly Hazardous, 2 Hazardous, 3 Extreme danger, 4 Deadly

#### HMIS® IV:

HEALTH	/	0
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

- OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA Z-1 / TWA : 8-hour time weighted average
- US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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 Har-

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monized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - 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

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End of Material Safety Data Sheet