

SAFETY DATA SHEET



CyLence Pour-On Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	06/23/2020	122000007065	Date of first issue: 23.06.2020

SECTION 1. IDENTIFICATION

Product information

Product Name : CyLence Pour-On Insecticide
SDS Number : 122000007065

Use : Pesticide

Company

Elanco US Inc.
2500 Innovation Way
Greenfield, IN 46140
USA
+1-877-Elanco1(+1-877-3526261)
elanco_sds@elanco.com

In case of emergency: CHEMTREC International: +1 703-527-3887 (24 hours)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 4

Eye irritation : Category 2B

GHS label elements

Signal word : Warning

Hazard statements : H227 Combustible liquid.
H320 Causes eye irritation.

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Other hazards

The material can accumulate static charge and can therefore cause electrical ignition.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Dipropylene glycol methyl ether	34590-94-8	98,8
Cyfluthrin (ISO)	68359-37-5	1,2
Dipropylene glycol methyl ether	34590-94-8	98,7999
Cyfluthrin (ISO)	68359-37-5	1,2

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Not an expected entry route.

In case of skin contact : If skin reactions occur, contact a physician.

In case of eye contact : Flush eyes with water as a precaution.

If swallowed : In case of accidental ingestion, contact your regional poison center or physician immediately.

Most important symptoms and effects, both acute and delayed : No information available.
No information available.

Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

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

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Fire may cause evolution of:
Carbon monoxide (CO)
Carbon dioxide (CO₂)

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

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures : Use personal protective equipment.
Keep away from heat and sources of ignition.

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agency procedures

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.
Use with local exhaust ventilation.
Avoid contact with skin, eyes and clothing.

Conditions for safe storage : For storage suitable stores with adequate product-reception volume must be used.
During handling local official regulations must be observed in order to avert impairment of water by the product.

Recommended storage temperature : < 86 °F / < 30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dipropylene glycol methyl ether	34590-94-8	TWA	100 ppm	ACGIH
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm	ACGIH
		TWA	100 ppm 600 mg/m ³	NIOSH REL
		TWA	100 ppm 600 mg/m ³	NIOSH REL
		ST	150 ppm 900 mg/m ³	NIOSH REL
		ST	150 ppm 900 mg/m ³	NIOSH REL
		TWA	100 ppm 600 mg/m ³	OSHA Z-1
		TWA	100 ppm 600 mg/m ³	OSHA Z-1
		TWA	100 ppm 600 mg/m ³	OSHA P0
		TWA	100 ppm	OSHA P0

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			600 mg/m ³	
		STEL	150 ppm 900 mg/m ³	OSHA P0
		STEL	150 ppm 900 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : Recommended Filter type:
Organic vapor with prefilter

None required for consumer use of this product.

Hand protection
Material : Chemically resistant gloves.

Remarks : None required for consumer use of this product.

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

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : yellow

Odour : weak, aromatic

Flash point : 174,9 °F / 79,4 °C

Density : 0,95 g/cm³

Solubility(ies)
Water solubility : soluble

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Explosive properties : No statements available.

Oxidizing properties : No data available

Impact sensitivity : No data available

Minimum ignition energy : No data available

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	:	No data available
Chemical stability	:	No data available
Possibility of hazardous reactions	:	No data available
Conditions to avoid	:	No data available
Incompatible materials	:	Oxidizing agents Bases Air
Hazardous decomposition products	:	Carbon monoxide (CO) Carbon dioxide (CO ₂)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity**Product:**

Acute oral toxicity	:	LD50 (Rat, male): 2.534 mg/kg LD50 (Rat, female): 2.075 mg/kg
Acute inhalation toxicity	:	(Rat): > 6,93 mg/l Exposure time: 4 h Acute toxicity estimate (ATE): 33,75 mg/l Exposure time: 4 h Test atmosphere: dust/mist/aerosol Method: Calculation method
Acute dermal toxicity	:	LD50 (Rat, male): 5.844 mg/kg LD50 (Rat, female): > 2.000 mg/kg

Components:**Dipropylene glycol methyl ether:**

Acute oral toxicity	:	LD50 (Rat): 5.135 mg/kg Assessment: No adverse effect has been observed in acute toxicity tests.
Acute inhalation toxicity	:	Assessment: No adverse effect has been observed in acute toxicity tests.
Acute dermal toxicity	:	LD50 (Rabbit): >20ml/kg Assessment: No adverse effect has been observed in acute toxicity tests.

Cyfluthrin (ISO):

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Acute oral toxicity : LD50 (Rat, male): 16 mg/kg
Remarks: in water/Cremophor EL

Acute inhalation toxicity : LC50 (Rat): 0,405 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: OECD 403

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Assessment: No adverse effect has been observed in acute toxicity tests.

Dipropylene glycol methyl ether:

Acute oral toxicity : LD50 (Rat): 5.135 mg/kg
Assessment: No adverse effect has been observed in acute toxicity tests.

Acute inhalation toxicity : Assessment: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): >20ml/kg
Assessment: No adverse effect has been observed in acute toxicity tests.

Cyfluthrin (ISO):

Acute oral toxicity : LD50 (Rat, male): 16 mg/kg
Remarks: in water/Cremophor EL

Acute inhalation toxicity : LC50 (Rat): 0,405 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: OECD 403

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Assessment: No adverse effect has been observed in acute toxicity tests.

Skin corrosion/irritation**Product:**

Result : Mild skin irritation

Components:**Cyfluthrin (ISO):**

Species : Rabbit
Method : OECD 404
Result : No skin irritation

Cyfluthrin (ISO):

Species : Rabbit
Method : OECD 404

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Result : No skin irritation

Serious eye damage/eye irritation**Product:**

Result : Mild eye irritation

Components:**Cyfluthrin (ISO):**

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

Cyfluthrin (ISO):

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

Respiratory or skin sensitisation**Product:**

Result : Does not cause skin sensitisation.

Components:**Dipropylene glycol methyl ether:**

Species : Human experience
Result : Does not cause skin sensitisation.

Cyfluthrin (ISO):

Test Type : Skin sensitisation
Species : Guinea pig
Method : Magnusson and Kligmann maximization test
Result : Did not cause sensitisation on laboratory animals.

Dipropylene glycol methyl ether:

Species : Human experience
Result : Does not cause skin sensitisation.

Cyfluthrin (ISO):

Test Type : Skin sensitisation
Species : Guinea pig
Method : Magnusson and Kligmann maximization test
Result : Did not cause sensitisation on laboratory animals.

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Germ cell mutagenicity**Components:****Dipropylene glycol methyl ether:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Cyfluthrin (ISO):

Genotoxicity in vitro : Remarks: Tests with bacteria and mammalian cells showed no evidence of genotoxic effects.

Genotoxicity in vivo : Remarks: In vivo tests did not show mutagenic effects

Dipropylene glycol methyl ether:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Cyfluthrin (ISO):

Genotoxicity in vitro : Remarks: Tests with bacteria and mammalian cells showed no evidence of genotoxic effects.

Genotoxicity in vivo : Remarks: In vivo tests did not show mutagenic effects

Carcinogenicity**Components:****Cyfluthrin (ISO):**

Result : Animal testing did not show any carcinogenic effects.

Cyfluthrin (ISO):

Result : Animal testing did not show any carcinogenic effects.

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

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Reproductive toxicity**Components:****Cyfluthrin (ISO):****Cyfluthrin (ISO):****Repeated dose toxicity****Components:****Dipropylene glycol methyl ether:**

Target Organs	:	Liver, Kidney
Symptoms	:	Dizziness, Drowsiness, Tiredness

Dipropylene glycol methyl ether:

Target Organs	:	Liver, Kidney
Symptoms	:	Dizziness, Drowsiness, Tiredness

Further information**Components:****Cyfluthrin (ISO):**

Pharmaceutic effects	
Remarks	: Insecticide

Cyfluthrin (ISO):

Pharmaceutic effects	
Remarks	: Insecticide

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Dipropylene glycol methyl ether:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 10.000 mg/l Exposure time: 96 h Test Type: static test
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Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 1,919 mg/l Exposure time: 48 h
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Toxicity to algae/aquatic plants	:	EC50 (Selenastrum Capricornutum (Green algae)): > 969 mg/l Exposure time: 96 h Test Type: Growth inhibition
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Cyfluthrin (ISO):

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,00047 mg/l
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Exposure time: 96 h
Test Type: Acute Fish toxicity

LC50 (Leuciscus idus (Golden orfe)): 0,0032 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,0032 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,00016 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Activated sludge micro-organism): > 10.000 mg/l
Method: OECD 209

Dipropylene glycol methyl ether:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 10.000 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1,919 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Selenastrum Capricornutum (Green algae)): > 969 mg/l
Exposure time: 96 h
Test Type: Growth inhibition

Cyfluthrin (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,00047 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity

LC50 (Leuciscus idus (Golden orfe)): 0,0032 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,0032 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,00016 mg/l
Exposure time: 48 h

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Toxicity to microorganisms : EC50 (Activated sludge micro-organism): > 10.000 mg/l
Method: OECD 209

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Persistence and degradability**Components:****Dipropylene glycol methyl ether:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD 301F

Result: Readily biodegradable.
Biodegradation: 93 %
Exposure time: 13 d
Method: OECD 302B

ThOD : 0,00206 mg/g

Cyfluthrin (ISO):

Biodegradability : Result: rapidly biodegradable

Dipropylene glycol methyl ether:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD 301F

Result: Readily biodegradable.
Biodegradation: 93 %
Exposure time: 13 d
Method: OECD 302B

ThOD : 0,00206 mg/g

Cyfluthrin (ISO):

Biodegradability : Result: rapidly biodegradable

Bioaccumulative potential**Components:****Dipropylene glycol methyl ether:**

Partition coefficient: n-octanol/water : log Pow: -0,35

Cyfluthrin (ISO):

Bioaccumulation : Bioconcentration factor (BCF): 506

Partition coefficient: n-octanol/water : log Pow: 5,9 - 6,18 (72 °F / 22 °C)

Dipropylene glycol methyl ether:

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Partition coefficient: n-octanol/water : log Pow: -0,35

Cyfluthrin (ISO):

Bioaccumulation : Bioconcentration factor (BCF): 506

Partition coefficient: n-octanol/water : log Pow: 5,9 - 6,18 (72 °F / 22 °C)

Mobility in soil

No data available

Other adverse effects

Product:

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

SECTION 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)

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUTHRIN)
Class	: 9
Packing group	: III
Labels	: 9
Environmentally hazardous	: yes

IMDG-Code

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

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Marine pollutant : yes

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

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number : NA 1993
Proper shipping name : COMBUSTIBLE LIQUID, N.O.S.

Class : CBL
Packing group : III
Labels : None
Marine pollutant : no

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.

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards : Immediate Health Hazard
Delayed Health Hazard
Flammable (gases, aerosols, liquids, or solids)
Serious eye damage or eye irritation

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

Cyfluthrin (ISO)	68359-37-5	1,2 %
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US State Regulations

Massachusetts Right To Know

Dipropylene glycol methyl ether	34590-94-8
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Pennsylvania Right To Know

Dipropylene glycol methyl ether	34590-94-8
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New York City Hazardous Substances

Dipropylene glycol methyl ether	34590-94-8
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California List of Hazardous Substances

Dipropylene glycol methyl ether 34590-94-8

California Permissible Exposure Limits for Chemical Contaminants

Dipropylene glycol methyl ether 34590-94-8

International Regulations

Montreal Protocol (Ozone Depleting Substances) : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

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.

SECTION 16. OTHER INFORMATION**Further information****NFPA 704:**

Health - 2 Flammability - 2 Instability - 0 Others - 0

HMIS® IV:

Health - 1 Flammability - 2 Instability - 0 Others -

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average

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