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

Product information

Product Name: CYLENCE Pour-on
MSDS Number: 122000007065

Use : Pesticide

Company
BAYER HEALTHCARE LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
USA
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtrec: (800) 424-9300
BAYER INFORMATION PHONE:(800) 633-3796
INTERNATIONAL:(703) 527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

ATTENTION! Combustible Liquid Colour: yellow **Form:** liquid **Odour:** weak, aromatic.
May cause eye, skin, and respiratory tract irritation. Inhalation may cause nausea or dizziness. Harmful if inhaled. May cause skin irritation. Harmful if absorbed through skin. May cause eye irritation. Harmful if swallowed.

GHS Classification:

Eye irritation : Category 2

GHS Label element:

Hazard pictograms :

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Weight percent	Components	CAS-No.
1.2%	Cyfluthrin	68359-37-5
>=95%	Dipropylene glycol methyl ether	34590-94-8

4. FIRST AID MEASURES

General advice: Take off all contaminated clothing immediately.

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

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Contact Number: Use the Bayer Emergency Number in Section 1

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 firefighting: Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO2)

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

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

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

Additional advice: Keep away from/remove sources of ignition.

Further Accidental Release Notes Keep away from/remove sources of ignition.

7. HANDLING AND STORAGE

Handling:
Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

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

Storage:
Storage temperature: < 86 °F (< 30 °C)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Dipropylene glycol methyl ether (34590-94-8)
US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 100 ppm
US. ACGIH Threshold Limit Values

Short Term Exposure Limit (STEL): 150 ppm
US. ACGIH Threshold Limit Values
Skin designation: Can be absorbed through the skin.
US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 100 ppm, 600 mg/m3
US. NIOSH: Pocket Guide to Chemical Hazards
Short Term Exposure Limit (STEL): 150 ppm, 900 mg/m3
US. NIOSH: Pocket Guide to Chemical Hazards
Skin designation: Can be absorbed through the skin.
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
PEL: 100 ppm, 600 mg/m3
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Skin designation: Can be absorbed through the skin.

Respiratory protection:
Recommended Filter type: Organic vapor with prefilter

Hand protection:
Chemically resistant gloves.

Eye protection:
Safety glasses

Other protective measures:
Wear suitable protective equipment.

Please consult label for end-user requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	yellow
Odour:	weak, aromatic
Odour Threshold:	No applicable information is available
Melting point:	No applicable information is available
Boiling point/boiling range:	No applicable information is available
Density:	0.95 g/cm³
Bulk density:	No applicable information is available
Vapour pressure:	No applicable information is available
Viscosity, dynamic:	No applicable information is available
Viscosity, kinematic:	No applicable information is available
Flow time:	No applicable information is available
Surface tension:	No applicable information is available
Miscibility with water:	No applicable information is available
Water solubility:	soluble
pH:	No applicable information is available
Relative density:	No applicable information is available
Partition coefficient:	No applicable information is available
Solubility(ies):	No applicable information is available

Flash point:	174.92 °F (79.4 °C)
Flammability (solid, gas):	No applicable information is available
Ignition temperature:	No applicable information is available
Explosion limits:	No applicable information is available

10. STABILITY AND REACTIVITY

Conditions to avoid: no data available

Materials to avoid: Oxidizing agents, Bases, Air

Hazardous reactions: no data available

Thermal decomposition:

no data available

Hazardous decomposition products:
Carbon monoxide (CO), Carbon dioxide (CO2)

Oxidizing properties:

No statements available.

Impact Sensitivity:
no data available

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:
LD50 rat , male : 2,534 mg/kg

LD50 rat , female : 2,075 mg/kg
May be harmful if swallowed.

Acute inhalation toxicity:
rat: > 6.93 mg/l, 4 h

Acute toxicity estimate (ATE) > 5 mg/l
May be harmful if inhaled.
Method: Calculation method
Calculated for GHS Classification and Labelling.

Acute dermal toxicity:
LD50 rat, male: 5,844 mg/kg

LD50 rat, female: > 2,000 mg/kg
May be harmful in contact with skin.

Skin irritation:
Result: Mild skin irritation

Eye irritation:
Result: Mild eye irritation

Sensitisation:
Result: Does not cause skin sensitization.

Subacute, subchronic and prolonged toxicity:
Dipropylene glycol methyl ether

Genotoxicity in vitro:
Dipropylene glycol methyl ether
In vitro tests did not show mutagenic effects

Teratogenicity:
Dipropylene glycol methyl ether
Result: Did not show teratogenic effects in animal experiments.

Carcinogenicity:
No Carcinogenic substances as defined by IARC, NTP and/or OSHA

STOT - single exposure:
no data available

STOT - repeated exposure:
no data available

12. ECOLOGICAL INFORMATION

General advice:
Do not allow to enter surface waters or groundwater.

Toxicity to fish:
Cyfluthrin
Acute Fish toxicity: LC50 0.00047 mg/l
Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Acute Fish toxicity: LC50 0.0032 mg/l
Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Acute Fish toxicity: LC50 0.0032 mg/l
Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

Dipropylene glycol methyl ether
static test: LC50 > 10,000 mg/l
Test species: Pimephales promelas (fathead minnow) Duration of test: 96 h

Toxicity to daphnia and other aquatic invertebrates:
Cyfluthrin
EC50 0.00016 mg/l
Test species: Daphnia magna (Water flea) Duration of test: 48 h

Dipropylene glycol methyl ether
LC50 1.919 mg/l
Test species: Daphnia magna (Water flea) Duration of test: 48 h

Toxicity to algae:
Cyfluthrin
IC50 > 10 mg/l
tested on: Desmodesmus subspicatus (green algae) Duration of test: 72 h

Dipropylene glycol methyl ether
Growth inhibition EC50 > 969 mg/l
tested on: Selenastrum Capricornutum (Green algae) Duration of test: 96 h

Toxicity to bacteria:
Cyfluthrin
EC50 > 10,000 mg/l
tested on: activated sludge micro-organism
Method: OECD 209

Biodegradability:
Cyfluthrin
rapidly biodegradable

Dipropylene glycol methyl ether
75 %, 28 d rapidly biodegradable
Method: OECD 301 F

93 %, 13 d rapidly biodegradable
Method: OECD 302 B

Bioaccumulation:
Cyfluthrin

Bioconcentration factor (BCF)
506

13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

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

14. TRANSPORT INFORMATION

Land transport (CFR)
non-regulated

US Sea transport (IMDG)
non-regulated

US Air transport (ICAO / IATA cargo aircraft only)
non-regulated

US Air transport (ICAO / IATA passenger and cargo aircraft)
non-regulated

International IATA

UN Number	3082
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUTHRIN)
Class	9
Packaging group	III
Dangerous goods labels	9
Environmentally hazardous	yes

International IMDG

UN Number	3082
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUTHRIN)
Class	9
Packaging group	III
IMDG-Labels	9
EmS Number	F-A
Marine Pollutant	yes

15. REGULATORY INFORMATION

Other regulations: No statements available.

FIFRA Status	This product is registered with the EPA under FIFRA.
US. Toxic Substances Control Act	This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)
Components
None

SARA Section 311/312 Hazard Categories	Immediate Health Hazard, Delayed Health Hazard

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

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components
None

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent	Components	CAS-No.
>=95%	Dipropylene glycol methyl ether	34590-94-8

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

Weight percent	Components	CAS-No.
1 - 5%	Cyfluthrin	68359-37-5

California Prop. 65

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

OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION

NFPA 704M Rating

Health	2
Flammability	2
Reactivity	0
Other	0

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

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information

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