

MSDS

Material Safety Data Sheet

Date prepared: Sep 5, 2015

Date revised: N/A (first edition)

Section 1 - General Information

Chemical Name: Cyfluthrin
CAS Reg. Number: 68359-37-5
Catalog Number: 1ST20203
Manufacturer's Name: A Chemtek, Inc.
100 Barber Avenue
Worcester, MA 01606, USA

Telephone Number: 508-471-4121

Fax Number: 508-845-9201


For R & D use only

Section 2 - Hazardous Ingredients/Identity Information

Classification of the substance or mixture

Acute toxicity, Oral (Category 2), H300
Acute toxicity, Inhalation (Category 3), H331
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

Label elements

Pictogram	
Signal word	Danger
Hazard statement(s)	
H300	Fatal if swallowed.
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Section 3 - Composition/Information on Ingredients

Formula: C₂₂H₁₈Cl₂FNO₃
Molecular Weight: 434.29 g/mol
CAS-No. 68359-37-5

Section 4 - First Aid Measures

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

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In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Section 5 - Fire-Fighting Measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

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.

Recommended storage temperature: 2 - 8 °C.

Section 8 - Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice

Section 9 - Physical and Chemical Properties

Appearance:

Form solid
Color brown

Safety data

pH: not available
Melting point: not available
Boiling point: not available
Flash point: not available
Lower explosion limit: not available
Upper explosion limit: not available
Water solubility: not available

Section 10 - Stability and Reactivity

Storage stability

Stable under recommended storage conditions

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Materials to avoid Strong oxidizing agents, Strong bases
Hazardous decomposition products Hazardous decomposition products formed under fire conditions.
- Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas, Hydrogen fluoride gas.

Section 11 - Toxicological Information

Acute toxicity: LD50 Oral - Rat - 900 mg/kg
LC50 Inhalation - Rat - 4 h - 530 mg/m³
LD50 Dermal - Rat - > 5,000 mg/kg

Irritation and corrosion: not available

Sensitization: not available

Respiratory or skin sensitization: not available

Chronic exposure

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential health effects

Inhalation: no data available

Skin: no data available

Eyes: no data available

Ingestion: no data available

Section 12 - Ecological Information

Elimination information (persistence and degradability)

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - < 0.001 mg/l - 96.0 h

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 0.17 µg/l - 48 h
other aquatic invertebrates

Ecotoxicity effects: not available

Further information on ecology: not available

Section 13 - Disposal Considerations

Product Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging Dispose of as unused product.

Section 14- Transport Information

DOT (US)

UN number: 2811 Class: 6.1 Packing group: II

Proper shipping name: Toxic solids, organic, n.o.s. (Cyfluthrin)

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Cyfluthrin)

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Marine pollutant: No

IATA

UN number: 2811

Class: 6.1

Packing group: II

Proper shipping name: Toxic solid, organic, n.o.s. (Cyfluthrin)

Section 15 - Regulatory Information

SARA 302 Components

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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

Cyfluthrin CAS-No. 68359-37-5 Revision Date 2007-07-01

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Cyfluthrin CAS-No. 68359-37-5 Revision Date 2007-07-01

New Jersey Right To Know Components

Cyfluthrin CAS-No. 68359-37-5 Revision Date 2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A Chemtek shall not be held liable for any damage resulting from handling or from contact with the above product.