

### SECTION-1: Identification of the substance / mixture and the company / undertaking

<b>Catalogue Number</b>	CS-T-93497
<b>Product Name</b>	Cyfluthrin
<b>CAS No.</b>	68359-37-5
<b>Category</b>	Pesticide Standards
<b>Synonyms</b>	-
<b>Brand</b>	Clearsynth Labs Ltd.
<b>Identified uses</b>	Laboratory Chemicals
<b>Uses advised against</b>	Not available
<b>Company</b>	Clearsynth Labs Ltd. Mumbai, India
<b>Emergency Phone #</b>	+91-22-245045900
<b>REACH No.</b>	Not available

### SECTION 2: Hazards identification

**Disclaimer:** This is sample MSDS. Please email [sales@clearsynth.com](mailto:sales@clearsynth.com) for more details.

#### 2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Serious eye damage/eye irritation (Category 2)

Acute toxicity (Category 4)

#### 2.2 Label Elements

**Signal Word:** Warning



#### Hazard Statement(s)

Code	Statement
H300	Not available
H330	Not available
H362	Not available

H370	Not available
H400	Not available
H410	Not available
H300+H330	Not available
H331	Not available
H301	Not available
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H361	Not available
H372	Not available

**Precautionary Statement(s)**

Code	Statement
P203	Not available
P260	Not available
P263	Not available
P264	Wash hands thoroughly after handling.
P270	Not available
P271	Use only outdoors or in a well-ventilated area.
P273	Not available
P284	Not available
P301+P316	Not available
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P316	Not available
P316	Not available
P318	Not available
P320	Not available
P321	Specific treatment (see ... on this label).
P330	Not available
P391	Not available

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264+P265	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
P319	Get medical help if you feel unwell.
P337+P317	If eye irritation persists: Get medical help.

### SECTION 3: Composition / information on ingredients

#### 3.1 Substance

Component : Cyfluthrin

CAS Number : 68359-37-5

Molecular Formula : C<sub>12</sub>H<sub>11</sub>ClFNO<sub>2</sub>

Molecular Weight : 434.29

Parent Chemical : -

Synonyms : -

Concentration : Not available

### SECTION 4: First aid measures

#### SECTION 4: First-aid measures

##### 4.1 Description of first aid measures

General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms persist or are severe.

Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.

Skin contact: Wash with plenty of soap and water. Get medical attention if irritation develops or persists.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

##### 4.2 Most important symptoms and effects, both acute and delayed

Not available.

##### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No data available.

### SECTION 5: Firefighting measures

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media: Not available.

##### 5.2 Special hazards arising from the substance or mixture

May decompose under fire conditions to produce hazardous fumes/gases. Specific decomposition products: Not available.

##### 5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and full protective gear. Use water spray to cool unopened containers. Prevent fire-fighting water from entering drains or waterways.

### SECTION 6: Accidental release measures

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/vapors/mist. Avoid contact with skin and eyes. Provide adequate ventilation. Wear appropriate personal protective equipment.

##### 6.2 Environmental precautions

Avoid release to the environment. Prevent entry into drains, surface water, and soil.

##### 6.3 Methods and material for containment and cleaning up

Contain spill. Collect spilled material using inert absorbent and place in a suitable, labeled container for disposal. Clean contaminated area with suitable cleaning methods. Dispose of waste in accordance with local/regional/national regulations.

##### 6.4 Reference to other sections

See Section 8 for personal protective equipment and Section 13 for disposal considerations.

### SECTION-7: Handling and storage

#### SECTION 7: Handling and storage

##### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust/aerosols. Avoid contact with skin, eyes, and clothing. Do not breathe dust/vapors/mist. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

##### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed container in a cool, dry, well-ventilated place. Protect from heat and direct sunlight. Keep away from incompatible materials. Incompatible materials: Not available.

##### 7.3 Specific end use(s)

Pesticide standard. Specific use conditions: Not available.

### SECTION 8: Exposure controls / personal protection

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits: Not available.

Biological limit values: Not available.

#### 8.2 Exposure controls

Engineering controls: Use local exhaust ventilation or general ventilation to minimize exposure.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves (material not available). Wear protective clothing to prevent skin contact.
- Respiratory protection: If ventilation is inadequate or exposure is possible, use a NIOSH/EN-approved respirator suitable for particulates/organic vapors as appropriate. Specific selection: Not available.
- Hygiene measures: Wash hands and exposed skin after handling. Remove contaminated clothing and wash before reuse.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Test	Result
Appearance	Off white gummy solid
IR spectrum	No data available
pH	No data available
Solubility	In DMSO

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available

Property	Value
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

## SECTION 10: Stability and reactivity

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Heat, open flames, and other ignition sources. Other conditions: Not available.

#### 10.5 Incompatible materials

Not available.

#### 10.6 Hazardous decomposition products

Not available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- Acute toxicity: LD50: 869-1271 mg/kg (Oral, Rat) (L862) LD50: 291-609 mg/kg (Oral, Mouse) (L862) L50: > 5000 mg/kg (Dermal, Rat) (L862) /HUMAN EXPOSURE STUDIES/ An additional objective was to examine whether human volunteers experience comparable signs when acutely exposed for 1 hr to airborne concentrations slightly above or in the range of the NO(A)EL /for rats/. In human volunteers there were no clinically significant or pyrethroid related abnormalities in vital signs, ECG's or in any clinical laboratory tests after either exposure, although transient effects related to upper respiratory tract (sensory) irritation were reported. In conclusion, an initial actual exposure concentration of approximately 0.1 mg cyfluthrin/cu m appears to be in the range of the sensory irritant threshold concentration for both rats and humans. Thus, with regard to physiological afferent portal-of-entry effects, the interspecies response was consistent.

- Skin corrosion/irritation: No data available.

- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: Cancer Classification: Not Likely to be Carcinogenic to Humans
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

#### Likely routes of exposure

- Following dermal exposure to cyfluthrin, feelings of numbness, itching, burning, stinging, tingling, or warmth may occur, that could last for a few hours. Dizziness, headache, nausea, muscle twitching, reduced energy, and changes in awareness can result from inhalation or ingestion of large amounts of cyfluthrin. Paralysis can occur after exposure. (L857)

#### Symptoms related to the physical, chemical and toxicological characteristics

- The most significant effect is pronounced irritation and burning of the skin and especially mucosal areas (lips, prepuce). The symptoms usually appear after 1-2 hr and last for one or two days. A stinging sensation was observed 12-24 hr after facial and mucosal contact. A greater risk was associated with exposure to powdered compound than to liquid formulations. The irritating effect was probably due to a local action on sensitive nerve pathways and sensory nerve cells and was reversible.

## SECTION 12: Ecological information

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#### 12.1 Toxicity

No data available.

#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

Not available.

#### 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations. Do not discharge to drains or the environment. Incineration or disposal via a licensed waste contractor may be appropriate. Specific disposal methods: Not available.

Contaminated packaging: Dispose of as unused product unless properly cleaned and permitted by regulations.

### SECTION 14: Transport information

#### SECTION 14: Transport information

##### 14.1 UN number

Not available.

##### 14.2 UN proper shipping name

Not available.

##### 14.3 Transport hazard class(es)

Not available.

##### 14.4 Packing group

Not available.

##### 14.5 Environmental hazards

Not available.

##### 14.6 Special precautions for user

Not available.

##### 14.7 Maritime transport in bulk according to IMO instruments

Not available.

### SECTION 15: Regulatory information

#### SECTION 15: Regulatory information

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

Not available.

##### 15.2 Chemical safety assessment

No data available.

### SECTION 16: Other information

#### SECTION 16: Other information

Product name: Cyfluthrin

CAS No.: 68359-37-5

Catalog No.: CS-T-93497

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

Disclaimer: The information provided is believed to be accurate based on available product information, but no warranty is expressed or implied. Users are responsible for determining suitability for their particular application and for compliance with applicable regulations.

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