



# SAFETY DATA SHEET

## Tempo SC Ultra

Version 2.1

Revision Date 01/31/2017

122000007110  
Print Date 06/21/2018

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

**Product information**TEMPO SC ULTRA 240ML

**Product Name:** Tempo SC Ultra  
**Synonyms:** Tempo SC Ultra Premise Spray  
**SDS Number:** 122000007110

**Use** : Pesticide

#### Company

Bayer HealthCare, LLC  
Animal Health Division  
12707 Shawnee Mission Parkway  
(West 63rd)  
Shawnee, KS 66216-1846  
UNITED STATES OF AMERICA  
(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

#### Classification of the substance or mixture

#### Classification according to national GHS implementation:

Acute toxicity, Oral, Category 4 (H302)  
Acute toxicity, Inhalation, Category 4 (H332)  
Eye irritation, Category 2B (H320)

#### Label elements

#### Labelling according to national GHS implementation:



Warning

#### Hazard statements:

H302 + H332 Harmful if swallowed or if inhaled  
H320 Causes eye irritation.

#### Precautionary statements:

Prevention:  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.

Response:



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P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazardous components which must be listed on the label:

Components:	CAS-No.
cyfluthrin (ISO)	68359-37-5

### Other hazards

Other hazards which do not result in classification:

None known.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

#### Hazardous components

##### cyfluthrin (ISO)

Concentration [Weight percent] 11.81

CAS-No.: 68359-37-5

#### GHS Classification:



Acute Tox. 2 H300

Acute Tox. 3 H331

##### Polyoxyethylene(25)tristyrylphenol

Concentration [Weight percent] 3

CAS-No.: 99734-09-5

#### GHS Classification:



Aquatic Chronic 3 H412

Eye Irrit. 2 H319

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For the full text of the H-Statements mentioned in this Section, see Section 16.

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### 4. FIRST AID MEASURES

#### Description of first aid measures

**General advice:** Take off all contaminated clothing immediately.

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



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**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.

#### **Most important acute symptoms/effects**

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

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## 5. FIREFIGHTING MEASURES

### **Extinguishing media**

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

**Unsuitable extinguishing media:** High volume water jet

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

**Specific hazards during firefighting:** Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

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

### **Advice for firefighters**

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

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## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment.

### **Environmental precautions**

### **Methods and materials for containment and cleaning up**

**Methods for 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.

### **Reference to other sections**

**Additional advice:** No special precautions required.

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## 7. HANDLING AND STORAGE

### **Precautions for safe handling**



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### Handling:

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

No special protective measures against fire required.

### Conditions for safe storage, including any incompatibilities

**Storage temperature:** 0 - 100 °F

### Specific end use(s)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1

### Hazardous components without workplace control parameters

Components	CAS-No.
cyfluthrin (ISO)	68359-37-5
Polyoxyethylene(25)tristyrylph enol	99734-09-5

### 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.



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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Form:	suspension
Colour:	beige
Odour:	No statements available.
Melting point/range:	68 °C
Boiling point/boiling range:	No statements available.
Density:	1.06 g/cm <sup>3</sup> at 20 °C
Bulk density:	Not applicable
Vapour pressure:	No statements available.
Viscosity, dynamic:	1,060 mPa.s at 23 °C
Viscosity, kinematic:	No statements available.
Flow time:	No statements available.
Surface tension:	No statements available.
Water solubility:	No statements available.
Solubility(ies):	No statements available.
pH:	7 - 8
Corrosive to metal:	No statements available.
Partition coefficient (n-octanol/water):	cyfluthrin (ISO) log Pow: 5.9 - 6.18 at 22 °C
Flash point:	> 93 °C
Inflammability (solid, gaseous):	Not applicable
Explosion limits:	No statements available.

##### Other information

Miscibility with water: No statements available.

#### 10. STABILITY AND REACTIVITY

##### Reactivity

No statements available.

##### Reactions with water / air:

No statements available.

##### Ignition temperature:

cyfluthrin (ISO)  
415 °C DIN 51794

##### Burning number:

No statements available.

##### Chemical stability

No statements available.

##### Thermal decomposition:

No data available

##### Dust explosion characteristic number:



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Not applicable

**Dust explosion class:**

Not applicable

**Impact sensitivity:**

No data available

**Hazardous reactions:**

No data available

**Explosive properties:**

No statements available.

**Possibility of hazardous reactions**

**deflagration ability:**

No statements available.

**Smoldering combustion:**

No statements available.

**Conditions to avoid**

No data available

**Minimum ignition energy:**

No data available

**Oxidizing properties:**

No statements available.

**Incompatible materials**

**Materials to avoid:**

Oxidizing agents

**Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Product:**

Acute oral toxicity : LD50 (Rat, male): 960 mg/kg  
Assessment: Harmful if swallowed.

LD50 (Rat, female): 1,150 mg/kg  
Assessment: Harmful if swallowed.

Acute inhalation toxicity : (Rat): > 1.72 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol

Acute toxicity estimate (ATE): 4.87 mg/l



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Test atmosphere: dust/mist/aerosol  
Method: Calculation method  
Assessment: Harmful if inhaled.  
Remarks: Calculated for GHS Classification and Labelling.

Acute toxicity estimate (ATE): 4.87 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol  
Method: Calculation method

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: May be harmful in contact with skin.

### Components:

#### **cyfluthrin (ISO):**

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

LD50 (Rat, male): 590 mg/kg  
Remarks: in polyethylene glycol 400

LD50 (Rat, female): 1,189 mg/kg  
Remarks: in polyethylene glycol 400

LD50 (Rat, male): 254 mg/kg  
Remarks: in acetone/oil

Acute inhalation toxicity : LC50 (Rat, male): 0.575 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Assessment: No adverse effect has been observed in acute toxicity tests.

### **Skin corrosion/irritation**

#### Product:

Species: Rabbit  
Result: Mild skin irritation

#### Components:

#### **cyfluthrin (ISO):**

Species: Rabbit  
Result: No skin irritation

### **Serious eye damage/eye irritation**

#### Product:

Species: Rabbit



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Result: Mild eye irritation

### Respiratory or skin sensitisation

#### Product:

Species: Guinea pig

Result: Does not cause skin sensitisation.

#### Components:

##### **cyfluthrin (ISO):**

Test Type: Skin sensitisation

Species: Guinea pig

Method: Magnusson and Kligmann maximization test

Result: Did not cause sensitisation on laboratory animals.

### Carcinogenicity

#### **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 identified as a carcinogen or potential carcinogen by OSHA.

#### **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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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **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)): 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 algae : IC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l  
Exposure time: 72 h
- Toxicity to bacteria : EC50 (activated sludge micro-organism): > 10,000 mg/l  
Method: OECD 209

### Persistence and degradability

#### Components:

##### **cyfluthrin (ISO):**

- Biodegradability : Result: rapidly biodegradable

### Bioaccumulative potential

#### Components:

##### **cyfluthrin (ISO):**

- Bioaccumulation : Bioconcentration factor (BCF): 506
- Partition coefficient: n-octanol/water : log Pow: 5.9 - 6.18 (22 °C)

### Mobility in soil

No data available

### Other adverse effects

#### Product:

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

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## 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)

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## 14. TRANSPORT INFORMATION

### US Land transport (CFR) non-regulated

### Sea transport (IMDG)



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

### Air transport (IATA)

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

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

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

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

cyfluthrin (ISO)	68359-37-5	11.81 %
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### US State Regulations

#### Massachusetts Right To Know

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

#### Pennsylvania Right To Know

Glycerol	56-81-5	10 - 20 %
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#### New Jersey Right To Know

cyfluthrin (ISO)	68359-37-5	10 - 20 %
Glycerol	56-81-5	10 - 20 %



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### New York City Hazardous Substances

Magnesium nitrate 10377-60-3 0 - 0.1 %

### California Prop. 65

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

### California Permissible Exposure Limits for Chemical Contaminants

Glycerol 56-81-5

### TSCA list

No substances are subject to a Significant New Use Rule.

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

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## 16. OTHER INFORMATION

### Full text of H-Statements mentioned in chapters 2 and 3

H300 Fatal if swallowed.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H320 Causes eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H412 Harmful to aquatic life with long lasting effects.

### 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.

