

MATERIAL SAFETY DATA SHEET

BAYER HEALTHCARE LLC

Animal Health Division 12707 Shawnee Mission Parkway (West 63rd) Shawnee, KS 66216-1846

TRANSPORTATION EMERGENCY NON-TRANSPORTATION

CALL CHEMTREC......: (800) 424-9300 BAYER EMERGENCY PHONE: (800) 422-9874 INTERNATIONAL: (703) 527-3887 BAYER INFORMATION PHONE: (800) 633-3796

Section 1: Product and Company Identification

Product Name: Tempo SC Ultra Pest Control Concentrate

Material Number: 80694254

Chemical Family: Pyrethroid Insecticide

Chemical Name: Cyano(4-fluoro-3-phenoxyphenyl)methyl 3-(2,2 -dichloroethenyl)-

2,2-dimethylcyclopropanecarboxylate

Synonyms: beta-cyfluthrin

Formula: C22 H18 Cl2 F N O3

Section 2: Composition/Information on Ingredients

HAZARDOUS INGREDIENTS

Ingredient Name/		Concent	<u>ration</u>
CAS Number	Exposure Limits	Min.	Max.
beta-Cyfluthrin 68359-37-5	OSHA (PEL): Not Established ACGIH (TLV): Not Established	10%	30%
Polyhydric alcohol CAS# is a trade secret	OSHA (PEL): 5.00 mg/m3 TWA Respirable Fraction 15.00 mg/m3 TWA Total Dust ACGIH (TLV): 10.00 mg/m3 TWA	7%	13%

Section 3: Hazards Identification

EMERGENCY OVERVIEW

CAUTION! Toxic. Color: Beige Form: Liquid Suspension Odor: Talc

Harmful if inhaled.

POTENTIAL HEALTH EFFECTS

Route(s) of Entry: Eye Contact, Inhalation, Skin Contact

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation Hazards

Acute Inhalation Hazards: Expected to be toxic by inhalation.

Skin Hazards

Acute Skin Hazards: Paraesthesia (a tingling or burning sensation on the surface of the

skin) may result from skin contact with synthetic pyrethroids and

normally subsides without treatment within 24 hours.

Eye Hazards

Acute Eye Hazards: May cause slight irritation.

Ingestion Hazards

Acute Ingestion Hazards: Moderately toxic by ingestion.

General Effects of Exposure

Chronic Effects of Exposure: No applicable information was found concerning any adverse

chronic health effects from overexposure to this product.

Carcinogenic Components:

NTP: None

IARC: None

OSHA: None

Medical Conditions

Aggravated by Exposure:

Skin disorders, Respiratory tract disorders

Section 4: First Aid Measures

First Aid for Eye: Use fingers to ensure that eyelids are separated and that the eye is

being irrigated. Get medical attention if irritation develops or

persists.

First Aid for Skin: In case of skin contact, wash affected areas with soap and water.

Wash clothing and shoes before reuse. Contact a physician if

irritation develops.

First Aid for Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

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Call a physician.

First Aid for Ingestion: Contact a physician or Poison Control Center. If syrup of ipecac is

available, administer 1 tablespoonful (15 mL) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 mintues, repeat the dose once. If ingested, do not induce

vomiting unless directed to do so by medical personnel.

Note to Physician: Published data indicate vitamin E acetate can prevent and/or mitigate

symptoms of parasthesia caused by synthetic pyrethroids. In case of human or animal poisoning, please contact the poison control center at (800) 414-0244. Please also notify Bayer at (877) 258-2280.

Section 5: Fire Fighting Measures

Flash Point: $> 200 \, ^{\circ}\text{F} (> 93 \, ^{\circ}\text{C})$

Flammable Limits:

Upper Explosion Limit Not Established

(UEL %):

Lower Explosion Limit Not Established

(LEL %):

Procedures:

Extinguishing Media:

Suitable: Water, Foam, Dry Chemical

Special Fire Fighting Firefighters should be equipped with self-contained breathing

apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Do not allow fire fighting water to enter sewer, surface waters, or ground water systems. Equipment and materials

used in fighting pesticide fires may become contaminated.

Section 6: Accidental Release Measures

Spill or Leak Procedures: Evacuate and keep unnecessary people out of spill area. Use

appropriate personal protective equipment during clean up. Recover uncontaminated product, if possible. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Wash spill area with soap and water. Soil, absorbents, and other materials that are contaminated by the spilled product should be collected for proper disposal. Do not allow spilled material or wash water to enter

sewers, surface waters, or groundwater systems.

Section 7: Handling and Storage

Storage Temperature:

Minimum: 0 °F **Maximum:** 100 °F

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Shelf Life: Contact Bayer for specific information.

Special Sensitivity: Not Established

Handling/Storage Precautions: Store in a dry place in original or waterproof containers. Store in an

area designated specifically for pesticides. Store separate from food products. Avoid contact with eyes. Avoid excessive contact with

skin or clothing.

Section 8: Exposure Controls/Personal Protection

Personal Protection Equipment

Eye Protection Requirements: Chemical safety goggles or glasses.

Skin Protection Requirements: Gloves, long sleeved shirts and pants.

Ventilation Requirements: Use local and general exhaust ventilation to control levels of

exposure.

Respirator Requirements: A NIOSH approved air purifying respirator with organic vapor

cartridges and particulate prefilter can be used to minimize exposure.

Additional Protective Emergency showers and eye wash stations should be available.

Measures: Waterless hand cleaner use is often more effective than soap and

water. Educate and train employees in the safe use and handling of this product. Follow all label instructions. Launder clothing separately after use. Employees should wash their hands and face

before eating, drinking, or using tobacco products.

Section 9: Physical and Chemical Properties

Physical Form:LiquidAppearance:SuspensionColor:BeigeOdor:TalcpH:7 - 8

Boiling Point: Not Established

Melting/Freezing Point: Approximately 20 °F (68 °C)

Viscosity: 1060 cps @ 23 C
Solubility in Water: Not Established
Specific Gravity: 1.06 @ 20 °C
Bulk Density: Not Established

Section 10: Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Substances to Avoid: Bases, Methanol, Disinfectants

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Conditions to Avoid: Not established

Decomposition Products: Not established

Section 11: Toxicological Information

Toxicity Data for Tempo SC Ultra Pest Control Concentrate

Acute oral toxicity: LD50 = 960 mg/kg bw (Male Rat)

LD50 = 1,150 mg/kg bw (Female Rat)

Acute dermal toxicity: LD50 = > 2,000 mg/kg bw (Rat)

Acute inhalation toxicity: > 1.72 mg/L, 4 hrs, aerosol (Rat)

Eye Irritation: Slightly irritating (Rabbit)

Skin Irritation: Non-irritating (Rabbit)

Sensitization: Non-sensitizer (Guinea pig)

Toxicity Data for beta-Cyfluthrin

Acute oral toxicity: LD50 = 84 - 380 mg/kg bw (Male Rat)

LD50 = 77 - 651 mg/kg bw (Female Rat)

Acute dermal toxicity: LD50 = > 5,000 mg/kg bw (Rat)

Acute inhalation toxicity: LC50 = 0.08 mg/L, 4 hrs, aerosol (Rat)

LC50 = 0.53 mg/L, 4 hrs, dust/particulate (Rat)

Eye Irritation: Slightly irritating (Rabbit)

Skin Irritation: Slightly irritating (Rabbit)

Sensitization: Non-sensitizer dermal (Guinea pig)

Repeated Dose Toxicity: In a 13 week dog study, beta-Cyfluthrin was administered at dietary

concentrations of 10, 60 or 360 ppm. Effects included vomiting and diarrhea after feeding, decreased body weight gain, and motor disturbances in the hind limbs. The no-observed effect-level (NOEL) was 60 ppm. In a 13 week study using rats, beta-Cyfluthrin was administered at dietary concentrations of 30, 125 or 500 ppm. Effects included reduced body weight gains and feed consumption, uncoordinated gait, and skin injuries of the neck and head from excessive preening due to the local irritant effect of the test material. The NOEL was 125 ppm. In a 4 week inhalation study, rats were exposed to beta-Cyfluthrin at liquid aerosol concentrations of 0.2, 2.7 or 23.5 mg/m3. Effects observed included ungroomed fur, piloerection, hyper- and hypoactivity, reduced body weight gains, reduced organ weights (thymus and spleen), and hematological changes. The NOEL was 0.2 mg/m3 based on decreased body

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weight gains.

Mutagenicity: No mutagenic effects were determined in various in vivo and in vitro

Developmental

In a developmental toxicity study, beta-Cyfluthrin was administered Toxicity/Teratogenicity: orally to rats during gestation at doses of 3, 10 or 40 mg/kg. At the

lethal and maternally toxic dose of 40 mg/kg, there was a decrease in fetal body weights and an increased incidence of skeletal findings. The NOELs for maternal and developmental toxicity were 3 and 10

mg/kg, respectively.

Neurotoxicity: In a 13 week neurotoxicity screening study, beta-Cyfluthrin was

administered to rats at dietary concentrations of 30, 125, or 400 ppm.

Effects observed included reduced body weight and food consumption, ataxia, repetitive chewing and pawing, increased activity and reactivity, and red nasal stain. There were no micropathologic findings within the neural tissues or skeletal muscle. The NOEL for subchronic neurotoxicity was 400 ppm, the

highest dose tested. The overall NOEL was 30 ppm.

Toxicity Data for Polyhydric alcohol

Toxicity Note: No data available for this component.

Section 12: Ecological Information

Ecological Data for Tempo SC Ultra Pest Control Concentrate

Ecological Note: This compound has been thoroughly evaluated for ecological effects.

> Bayer will provide a summary of specific data upon written request. As with any pesticide, this product should be used according to label directions and should be kept out of streams, lakes and other aquatic

habitats of concern.

Ecological Data for beta-Cyfluthrin

Ecological Note: No data available for this component.

Ecological Data for Polyhydric alcohol

Ecological Note: No data available for this component.

Section 13: Disposal Considerations

Waste Disposal Method: Follow container label instructions for disposal of wastes generated

during use in compliance with the FIFRA product label. In other situations, bury in an EPA approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse

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container.

Empty Container Precautions: Do not reuse empty container.

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Section 14: Transportation Information

Technical shipping name: Pesticide

Freight Class

Bulk: Not Applicable

Package: Insecticides, N.O.I. (NMFC 102120)

Product Label: Tempo SC Ultra Insecticide

Domestic Surface Transportation (DOT)

Hazard Class or Division: Non-Regulated

Marine Transportation (IMO / IMDG)

Hazard Class Division Non-Regulated

Number:

Air Transportation (ICAO / IATA)

Hazard Class Division Non-Regulated

Number:

Section 15: Regulatory Information

United States Federal Regulations

OSHA Hazcom Standard

Hazardous

Rating:

TSCA Inventory List: Not listed on TSCA Inventory, for R&D Use Only, Section 5

(h)(3) limitations apply.

FIFRA Status: This product is registered with the EPA under FIFRA.

CERCLA Hazardous Substance:

<u>Component(s)</u> <u>Reportable Quantity</u>

None

SARA Title III

SARA Section 302 Extremely Hazardous Substances:

Component(s)/ConcentrationCAS NumberMin.Max.

None

SARA Section 311/312 Hazard Immediate Health Hazard

Categories:

SARA Section 313 Toxic Chemicals:

Component(s)/ReportingConcentrationCAS NumberThresholdMin.Max.

beta-Cyfluthrin 1 %

68359-37-5

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RCRA Status:

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)

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

State Right-to-Know Information

Component(s)/		Concen	entration_	
CAS Number Trade Secret Component	<u>State Code</u> PA-N, NJ-N	Min. 60%	<u>Max.</u> 100%	
beta-Cyfluthrin 68359-37-5	NJ-E, NJ-N	10%	30%	
Polyhydric alcohol	PA-H, MA-H	7%	13%	
Polyoxyethylene(25)tristyrylphenol	PA-N, NJ-N	1%	5%	

State Code Translation Table

PA-N = Pennsylvania Non-hazardous

PA-H = Pennsylvania Hazardous Substance List

NJ-N = New Jersey Other - includes predominant ingredients NJ-E = New Jersey Environmental Hazardous Substance List

MA-H = Massachusetts Hazardous Substance List

Section 16: Other Information

NFPA 704M Rating

Health	1
Flammability	1
Reactivity	1
Other	

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

BAYER HEALTHCARE LLC's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by BAYER HEALTHCARE LLC as a customer service.

Contact: John Sheehan Phone: (913) 268-2570

MSDS Number: R38301 Version Date: 03/18/2008 MSDS Version: 1.22

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Indicates Relevant Change Made.		