

MSDS Number: 102000012309 MSDS Version 2.0 Revision Date: 06/24/2005

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	BAYER ADVANCED POWERFORCE CARPENTER ANT & TERMITE KILLER
	PLUS CONCENTRATE
MSDS Number	102000012309
EPA Registration No.	72155-58
Product Use	For use to protect the home against termites, carpenter ants and other wood- destroying pests.

Bayer Environmental Science 2 T.W. Alexander Drive Research Triangle PK, NC 27709 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call 1-800-334-7577 (24 hours/day) For Product Information call 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
beta-Cyfluthrin	68359-37-5	2.50

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section Emergency Overview	on 11 for detailed toxicological information. Caution! Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Moderate eye irritation
Physical State	liquid
Appearance	off-white
Routes of Exposure	Eye contact, Inhalation, Skin Absorption, Ingestion
Immediate Effects Eye	May cause eye irritation. Avoid contact with eyes.
Skin	Harmful if absorbed through skin. Can cause irritation to the skin resulting in effects such as burning and/or tingling sensation.



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Ingestion	Harmful if swallowed. Do not take internally.
Inhalation	Harmful if inhaled. Avoid breathing spray mist. May cause upper respiratory tract irritation.
Medical Conditions Aggravated by Exposure	No specific medical conditions are known which may be aggravated by exposure to this product. As with all materials which can cause upper respiratory tract irritation, persons with a history of asthma, emphysema, or hyperreactive airways disease may be more susceptible to overexposure.

General	Have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin	Take off all contaminated clothing immediately. Rinse immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Notes to Physician Treatment	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

SECTION 4. FIRST AID MEASURES

Flash Point	> 93 °C / > 199 °F
Suitable Extinguishing Media	dry chemical, foam, water



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Fire FightingKeep out of smoke. Fight fire from upwind position. Cool closed containers
exposed to fire with water spray. Dike area to prevent runoff and contamination
of water sources. Equipment or materials involved in pesticide fires may become
contaminated.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
Methods for Cleaning Up	Take all necessary action to prevent and to remedy the effects of the spill. Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material). Place in a container for disposal. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.
Additional Advice	Use personal protective equipment. Do not allow material to enter streams, sewers, or other waterways.

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Food utensils such as teaspoons or measuring cups must not be used for food purposes after use in measuring pesticides.
Storing Procedures	Store in original container and out of the reach of children, preferably in a locked storage area. Store in a cool, dry secured storage area.
Min/Max Storage Temperatures	No minimum / 30 day average temperature is not to exceed 38°C / 100°F.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection There are no known hazards associated with this product when used according to the label directions. At the same time, the following guidelines should be used.

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

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Do not allow children and pets to enter the treated area until it has dried.



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Engineering Controls		sure levels below the lust ventilation.	exposure limit	through the use of general
Eye/Face Protection	goggles			
Hand Protection	Chemical resis	stant nitrile rubber glo	ves	
Body Protection	Wear long-slee	eved shirt and long pa	ants and shoes	plus socks.
Exposure Limits Glycerine	56-81-5	ACGIH Form of Exposu OSHA Z1 Form of Exposu OSHA Z1 Form of Exposu OSHA Z1A Form of Exposu OSHA Z1A Form of Exposu US CA OEL Form of Exposu US CA OEL Form of Exposu	PEL re TWA re TWA re TWA PEL re TWA PEL	10 mg/m3 Mist. 5 mg/m3 Respirable fraction. 15 mg/m3 Total dust. 5 mg/m3 Respirable fraction. 10 mg/m3 Respirable fraction. 10 mg/m3 Total dust.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance off-white

Physical State liquid

pH 7 - 8.5

Density 1.0147 g/ml at 20 °C

Melting/Freezing Point -6.6 °C / 20.1 °F

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended storage conditions.

Incompatibility

methanol alkalines



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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity studies for this product have been bridged from another product containing ~11.8% of the active ingredient, Beta-cyfluthrin, an enriched isomer mixture of Cyfluthrin. The non-acute information pertains to the active ingredient, Beta-cyfluthrin technical. Toxicology information on Cyfluthrin technical can be obtained by calling the Product Use Information Number on Page 1.

Acute Oral Toxicity	male rat: LD50: 960 mg/kg
	female rat: LD50: 1,150 mg/kg
Acute Dermal Toxicity	male/female rat: LD50: > 2,000 mg/kg
Acute Inhalation Toxicity	male/female rat: LC50: > 1.72 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Maximum attainable concentration. male/female rat: LC50: > 6.88 mg/l
	Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50. (actual)
Skin Irritation	rabbit: No skin irritation
Eye Irritation	rabbit: Mild eye irritation
Sensitization	guinea pig: Non-sensitizing
Subchronic Toxicity	Beta-cyfluthrin produced general signs of toxicity (e.g., decreased body weights) and/or neurobehavioral effects (e.g., uncoordinated gait) in subchronic dietary studies (rats,dogs) and in a 4-week inhalation study (rats).
Assessment Carcinogenic ACGIH None.	ity

None. NTP None. IARC None. OSHA None.

Reproductive & Developmental Toxicity

Beta-cyfluthrin was not a primary developmental toxicant in a developmental toxicity study in rats. Developmental effects (e.g., delayed ossifications) were observed at the high-dose but were considered secondary to maternal toxicity.



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Neurotoxicity Beta-cyfluthrin produced slight transient neurobehavioral effects at the highest dose tested in acute and subchronic neurotoxicity screening studies in rats. There were no correlating compound-related morphological changes in the neural tissues in either study.

In a one-generation developmental neurotoxicity screening study in rats, offspring exposed to beta-cyfluthrin exhibited a reduction in startle response amplitude at the highest dose tested in conjunction with maternal toxicity. There were no compound-related morphological changes observed in the neural tissues.

Mutagenicity Beta-cyfluthrin was not a mutagenic or genotoxic in a battery of in vitro and in vivo mutagenicity studies.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Highly toxic to fish. Highly toxic to aquatic invertebrates. Do not apply directly to water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

This product is highly toxic to bees exposed to direct treatment or residues remaining on the treated areas. Do not apply this product or allow drift when bees are actively visiting the treatment area. Apply this product only as specified on the label.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow any applicable state or local guidelines. Never place unused product down any indoor or outdoor drain.
Container Disposal	Do not re-use empty containers. Rinse empty containers with water and use the rinse-water to prepare the working solution. Place empty container in trash.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION: Not regulated for Domestic Surface Transportation

FREIGHT CLASSIFICATION: Insecticides or Fungicides , N.O.I., other than poison

SECTION 15. REGULATORY INFORMATION



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US Federal Regulations TSCA list None. US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) None. SARA Title III - Section 302 - Notification and Information None. SARA Title III - Section 313 - Toxic Chemical Release Reporting beta-Cyfluthrin 68359-37-5 1.0% **US States Regulatory Reporting** CA Prop65 This product does not contain any substances known to the State of California to cause cancer. This product does not contain any substances known to the State of California to cause reproductive harm. **US State Right-To-Know Ingredients** beta-Cyfluthrin 68359-37-5 NJ Canadian Regulations **Canadian Domestic Substance List** None. Environmental CERCLA None. **Clean Water Section 307 Priority Pollutants** None. Safe Drinking Water Act Maximum Contaminant Levels None. International Regulations **European Inventory of Existing Commercial Substances (EINECS)** beta-Cyfluthrin 68359-37-5

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
Health - 1Flammability - 1Reactivity - 1Others - none0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Re-numbered due to system update.



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