SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name BAYER ADVANCED CARPENTER ANT & TERMITE KILLER PLUS CONCENTRATE

Product code (UVP) 05873028

SDS Number 102000013756

EPA Registration No. 72155-58

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

Restrictions on use See product label for restrictions.

Information on manufacturer

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

Emergency Telephone Number (24hr/7 days) 1-800-334-7577 (24 hours/day)

Product Information Telephone Number

SDS Information or Request SDSINFO.BCS-NA@bayer.com

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity (Oral, Inhalation): Category 4

Eye irritation : Category 2B

Signal word: Warning

Hazard statements

Harmful if swallowed.
Causes eye irritation.
Harmful if inhaled.

Precautionary statements

Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing mist and spray.
Use only outdoors or in a well-ventilated area.
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/physician if you feel unwell.
Dispose of contents/container in accordance with local regulation.

Other hazards
No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Average % by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beta-Cyfluthrin</td>
<td>68359-37-5</td>
<td>2.50</td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>57-55-6</td>
<td>3.22</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice
When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

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 physician or poison control center immediately.

Skin contact
Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Eye contact
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 physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. 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. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms
To date no symptoms are known.
Indication of any immediate medical attention and special treatment needed

Treatment  
Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

Unsuitable  
None known.

Special hazards arising from the substance or mixture  
Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters  
Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information  
Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point  
> 94 °C

Autoignition temperature  
no data available

Lower explosion limit  
no data available

Upper explosion limit  
no data available

Explosivity  
not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions  
Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice  
Use personal protective equipment.
Reference to other sections
Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling
Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers
Store in original container and out of the reach of children, preferably in a locked storage area. Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beta-Cyfluthrin</td>
<td>68359-37-5</td>
<td>50ug/m3 (ST ESL)</td>
<td>10 2003</td>
<td>TX ESL</td>
</tr>
<tr>
<td>Beta-Cyfluthrin (Particulate.)</td>
<td>68359-37-5</td>
<td>50ug/m3 (ST ESL)</td>
<td>10 2003</td>
<td>TX ESL</td>
</tr>
<tr>
<td>Beta-Cyfluthrin (Particulate.)</td>
<td>68359-37-5</td>
<td>5ug/m3 (AN ESL)</td>
<td>10 2003</td>
<td>TX ESL</td>
</tr>
<tr>
<td>Beta-Cyfluthrin</td>
<td>68359-37-5</td>
<td>5ug/m3 (AN ESL)</td>
<td>10 2003</td>
<td>TX ESL</td>
</tr>
<tr>
<td>Beta-Cyfluthrin</td>
<td>68359-37-5</td>
<td>0.01 mg/m3 (TWA)</td>
<td></td>
<td>OES BCS*</td>
</tr>
<tr>
<td>1,2-Propanediol (Vapor.)</td>
<td>57-55-6</td>
<td>1000ug/m3 (ST ESL)</td>
<td>02 2013</td>
<td>TX ESL</td>
</tr>
<tr>
<td>1,2-Propanediol (Vapor.)</td>
<td>57-55-6</td>
<td>50ppb (AN ESL)</td>
<td>02 2013</td>
<td>TX ESL</td>
</tr>
<tr>
<td>1,2-Propanediol (Vapor.)</td>
<td>57-55-6</td>
<td>500ppb (ST ESL)</td>
<td>02 2013</td>
<td>TX ESL</td>
</tr>
<tr>
<td>1,2-Propanediol (Vapor.)</td>
<td>57-55-6</td>
<td>100ug/m3 (AN ESL)</td>
<td>02 2013</td>
<td>TX ESL</td>
</tr>
<tr>
<td>1,2-Propanediol (Aerosol.)</td>
<td>57-55-6</td>
<td>10 mg/m3 (TWA)</td>
<td>2010</td>
<td>WEEL</td>
</tr>
</tbody>
</table>

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls
Personal protective equipment
In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection
When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection
Chemical resistant nitrile rubber gloves

Eye protection
Goggles

Skin and body protection
Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Do not allow children or pets to enter the treated area until it has dried.
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>white to light beige</td>
</tr>
<tr>
<td>Physical State</td>
<td>viscous liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH</td>
<td>3.5 - 5.5 at 10 % (20 °C) (CIPAC D water (342ppm))</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>no data available</td>
</tr>
<tr>
<td>Density</td>
<td>ca. 1.02 g/cm³ at 20 °C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting / Freezing Point</td>
<td>-6.6 °C / 20.12 °F</td>
</tr>
<tr>
<td>Water solubility</td>
<td>dispersible</td>
</tr>
<tr>
<td>Minimum Ignition Energy</td>
<td>not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
Viscosity: 500 - 1,100 mPa.s
Flash point: > 94 °C
Autoignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available
Explosivity: not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Thermal decomposition: no data available
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: no data available
Incompatible materials: Methanol, Bases
Hazardous decomposition products: No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Eye contact, Inhalation, Skin Absorption, Ingestion
Immediate Effects
Eye: Moderate eye irritation.
Skin: Harmful if absorbed through skin. Can cause irritation to the skin resulting in effects such as burning and/or tingling sensation.
Ingestion: Harmful if swallowed.
Inhalation: Harmful if inhaled. May cause upper respiratory tract irritation.

Information on toxicological effects
Acute oral toxicity
LD50 (male rat) 960 mg/kg
LD50 (female rat) 1,150 mg/kg

Acute inhalation toxicity
LC50 (male/female combined rat) > 1.72 mg/l
Exposure time: 4 h
Determined in the form of a respirable aerosol. Highest attainable concentration.
LC50 (male/female combined rat) > 6.88 mg/l
Exposure time: 1 h
Determined in the form of a respirable aerosol.
Extrapolated from the 4 hr LC50.
(actual)

**Acute dermal toxicity**
LD50 (male/female combined rat) > 2,000 mg/kg

**Skin irritation**
No skin irritation (rabbit)

**Eye irritation**
Mild eye irritation. (rabbit)

**Sensitisation**
Non-sensitizing. (guinea pig)

**Assessment repeated dose toxicity**
The toxic effects of beta-Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

**Assessment Mutagenicity**
beta-Cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**
beta-Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**
None.

**NTP**
None.

**IARC**
None.

**OSHA**
None.

**Assessment toxicity to reproduction**
beta-Cyfluthrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with beta-Cyfluthrin is related to parental toxicity.

**Assessment developmental toxicity**
beta-Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with beta-Cyfluthrin are related to maternal toxicity.

**Further information**
Acute toxicity studies have been bridged from a similar formulation(s).
The non-acute information pertains to the active ingredient(s).

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**SECTION 12: ECOLOGICAL INFORMATION**
### Toxicity to fish
LC50 (Rainbow trout (Oncorhynchus mykiss))  0.000068 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient beta-cyfluthrin.

### Toxicity to aquatic invertebrates
EC50 (Water flea (Daphnia magna))  0.00029 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient beta-cyfluthrin.

### Toxicity to aquatic plants
IC50 (Desmodesmus subspicatus) > 0.01 mg/l  
Growth rate; Exposure time: 72 h  
The value mentioned relates to the active ingredient beta-cyfluthrin.  
No acute toxicity was observed at its limit of water solubility.

### Biodegradability
beta-Cyfluthrin: ; not rapidly biodegradable

### Koc
beta-Cyfluthrin: Koc: 508 - 3179

### Bioaccumulation
beta-Cyfluthrin: Bioconcentration factor (BCF) 506; Does not bioaccumulate.

### Mobility in soil
beta-Cyfluthrin: Immobile in soil

### Environmental precautions
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.  
Do not allow to get into surface water, drains and ground water.  
Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.  
Apply this product as specified on the label.  
Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Product**
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 container label instructions and applicable local guidelines.  
Never place unused product down any indoor or outdoor drain.

**Contaminated packaging**
Do not re-use empty containers.  
Triple rinse containers.  
Place empty container in trash.

**RCRA Information**
Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

### SECTION 14: TRANSPORT INFORMATION

49CFR  
Not dangerous goods / not hazardous material
IMDG
UN number 3082
Class 9
Packaging group III
Marine pollutant YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-CYFLUTHRIN SOLUTION)

IATA
UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-CYFLUTHRIN SOLUTION )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 72155-58
US Federal Regulations
TSCA list
1,2-Propanediol 57-55-6
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
1,2-Propanediol 57-55-6 MN
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.

EPA/FIFRA Information:
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

Hazard statements:
- Harmful if swallowed, inhaled or absorbed through the skin.
- Avoid contact with skin, eyes and clothing.
- Avoid breathing spray mist.
- Moderate eye irritation.

SECTION 16: OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
- Health - 1
- Flammability - 1
- Instability - 1
- Others - none

- Health - 1
- Flammability - 0
- Physical Hazard - 0
- PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)
Revision Date: 06/19/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.