



Safety Data Sheet

BAYER ADVANCED HOME PEST INSECT KILLER CONTINUOUS SPRAY

SDS Number: 102000026545

SDS Version 2.0

Revision Date: 05/15/2013

Print Date: 06/28/2013

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	BAYER ADVANCED HOME PEST INSECT KILLER CONTINUOUS SPRAY
SDS Number	102000026545
Product code (UVP)	80959591
EPA Registration No.	72155-110
Product Use	Insecticide

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. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution - substance not yet tested completely. May cause eye irritation. May be harmful if swallowed or inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

Physical State	Liquid
Odor	slight
Appearance	white to beige
Exposure routes	Skin Absorption, Eye contact, Inhalation
Immediate Effects	
Eye	May cause eye irritation. Avoid contact with eyes.
Skin	May cause mild irritation to the skin. Avoid contact with skin and clothing.
Inhalation	May cause irritation. Avoid breathing spray mist.
Chronic or Delayed Long-Term	This product or its components may have long term (chronic) health effects. This product or its components may have target organ effects.



Safety Data Sheet

BAYER ADVANCED HOME PEST INSECT KILLER CONTINUOUS SPRAY

SDS Number: 102000026545
SDS Version 2.0

Potential Environmental Effect Highly toxic to aquatic invertebrates. Highly toxic to fish. Highly toxic to bees.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid	138261-41-3	0.025
Beta-Cyfluthrin	68359-37-5	0.0125

SECTION 4. FIRST AID MEASURES

General	When possible, 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 physician or poison control center immediately.
Skin	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.
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.
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.
Notes to physician Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	> 93.3 °C / 199.9 °F
Autoignition temperature	no data available
Lower Flammability Limit	no data available



Safety Data Sheet

BAYER ADVANCED HOME PEST INSECT KILLER CONTINUOUS SPRAY

SDS Number: 102000026545
SDS Version 2.0

Upper Flammability Limit	no data available
Explosiveness	not applicable
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Fire Fighting Instructions	<p>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.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>

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	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. Do not allow to enter soil, waterways or waste water canal.

SECTION 7. HANDLING AND STORAGE

Storing Procedures	<p>Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container and out of the reach of children, preferably in a locked storage area.</p> <p>Protect from freezing.</p>
Work/Hygienic Procedures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye/Face Protection	Safety glasses with side-shields
Hand protection	Chemical resistant nitrile rubber gloves
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.



Safety Data Sheet

BAYER ADVANCED HOME PEST INSECT KILLER CONTINUOUS SPRAY

SDS Number: 102000026545
SDS Version 2.0

Respiratory protection No personal respiratory protective equipment normally required.
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.

Exposure Limits

Imidacloprid	138261-41-3	OES BCS*	TWA	0.7 mg/m ³
		TX ESL	AN ESL	5 ug/m ³
Beta-Cyfluthrin	68359-37-5	TX ESL	ST ESL	50 ug/m ³
		TX ESL	ST ESL	50 ug/m ³
		TX ESL	AN ESL	5 ug/m ³
		TX ESL	AN ESL	5 ug/m ³
		OES BCS*	TWA	0.01 mg/m ³

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to beige
Physical State	Liquid
Odor	slight
pH	5.7 - 6.7 (100 %)
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	1.00 g/cm ³ at 20 °C
Evaporation rate	no data available
Water solubility	soluble
Minimum Ignition Energy	not applicable
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	no data available



Safety Data Sheet

BAYER ADVANCED HOME PEST INSECT KILLER CONTINUOUS SPRAY

SDS Number: 102000026545
SDS Version 2.0

Viscosity 380 mPa.s

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	freezing
Incompatibility	no data available
Hazardous Decomposition Products	no data available
Hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical Stability	Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity studies for this product have been bridged from another product containing a higher percentage of the active ingredients beta-cyfluthrin, an enriched isomer mixture of cyfluthrin, and imidacloprid. The non-acute information pertains to the active ingredients, beta-cyfluthrin and imidacloprid.

Acute oral toxicity	female rat: LD50: > 2,000 mg/kg
Acute dermal toxicity	rat: LD50: > 2,000 mg/kg
Acute inhalation toxicity	rat: LC50: > 5 mg/l Exposure time: 4 h
Chronic toxicity	Imidacloprid did not cause specific target organ toxicity in experimental animal studies. The toxic effects of beta-Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

Assessment Carcinogenicity

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

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

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.



Safety Data Sheet

BAYER ADVANCED HOME PEST INSECT KILLER CONTINUOUS SPRAY

SDS Number: 102000026545
SDS Version 2.0

Reproductive toxicity Imidacloprid 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 Imidacloprid is related to parental toxicity.

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.

Developmental Toxicity Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal 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.

Mutagenicity Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

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

SECTION 12. ECOLOGICAL INFORMATION

Environmental precautions Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product 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 container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.

Container Disposal 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.



Safety Data Sheet

BAYER ADVANCED HOME PEST INSECT KILLER CONTINUOUS SPRAY

SDS Number: 102000026545
SDS Version 2.0

SECTION 14. TRANSPORT INFORMATION

49CFR

UN number	1950
Class	2.2
Packaging group	
Description of the goods	AEROSOLS

IMDG

UN number	1950
Class	2.2
Packaging group	
Marine pollutant	NO
Description of the goods	AEROSOLS

IATA

UN number	1950
Class	2.2
Packaging group	
Environm. Hazardous Mark	NO
Description of the goods	AEROSOLS, NON-FLAMMABLE

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.

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 72155-110

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%
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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



Safety Data Sheet

BAYER ADVANCED HOME PEST INSECT KILLER CONTINUOUS SPRAY

SDS Number: 102000026545
SDS Version 2.0

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.

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1

Flammability - 0

Instability - 0

Others - none

HMS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

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: The following sections have been revised: Section 14: Transport Information.

Revision Date: 05/15/2013

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