



Material Safety Data Sheet

BAYER ADVANCED COMPLETE BRAND INSECT DUST FOR GARDENS READY-TO-USE

MSDS Number: 102000012217

MSDS Version 2.0

Revision Date: 05/25/2005

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BAYER ADVANCED COMPLETE BRAND INSECT DUST FOR GARDENS READY-TO-USE
MSDS Number 102000012217
EPA Registration No. 28293-125-72155
Product Use Broad spectrum insecticide for the use on vegetables, roses, flowers and fruit trees. Can also be used on dogs and cats to control fleas, ticks and lice.

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

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Permethrin	52645-53-1	0.25

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Hazard to humans and domestic animals. Harmful by inhalation and if swallowed. Avoid breathing dust. Avoid contact with skin. Highly toxic to fish.

For use on dogs and cats: Harmful by inhalation and if swallowed. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.

Physical State solid fine powder
Odor mild pyrethroid odor
Appearance off-white
Routes of Exposure Dust inhalation, Eye contact, Skin contact
Immediate Effects
Eye May cause eye irritation.



Material Safety Data Sheet

BAYER ADVANCED COMPLETE BRAND INSECT DUST FOR GARDENS READY-TO-USE

MSDS Number: 102000012217
MSDS Version 2.0

Skin	Irritating to skin.
Ingestion	May be harmful if swallowed.
Inhalation	Harmful if inhaled.

SECTION 4. FIRST AID MEASURES

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 physician or Poison Control Centre immediately. 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 treatment advice.
Notes to Physician	
Signs and Symptoms	May cause a transient, localized paresthesia, characterized by tingling, burning or numbness sensation in some individuals. Excessive dust inhalation may irritate upper respiratory track.
Treatment	Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	not applicable
Fire and Explosion Hazards	Avoid dust formation and electrical charging (sparking) because dust explosion might occur.
Suitable Extinguishing Media	foam, carbon dioxide (CO2), dry chemical



Material Safety Data Sheet

MSDS Number: 102000012217
MSDS Version 2.0

BAYER ADVANCED COMPLETE BRAND INSECT DUST FOR GARDENS READY-TO-USE

Fire Fighting Instructions Dike area to prevent runoff and contamination of water sources. Fight fire from upwind position.

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH approved (or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up Use proper protective equipment to minimize personal exposure (see Section 8). Do not allow spilt product to enter soil or waterways Sweep up and shovel into suitable containers for disposal. Dispose in accordance with all local, state/provincial and federal regulations.

SECTION 7. HANDLING AND STORAGE

Handling Procedures Avoid breathing dust. Avoid contact with skin and eyes. Do not contaminate ornamental fish ponds.

Storing Procedures Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.

Work/Hygienic Procedures Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before re-use.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Eye/Face Protection safety glasses
or
goggles

Hand Protection waterproof gloves

Body Protection Long-sleeved shirt and long pants
Shoes plus socks

Respiratory Protection Effective dust mask.



Material Safety Data Sheet

BAYER ADVANCED COMPLETE BRAND INSECT DUST FOR GARDENS READY-TO-USE

MSDS Number: 102000012217
MSDS Version 2.0

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	off-white
Physical State	solid fine powder
Odor	mild pyrethroid odor
Bulk Density	50 lbs/cu.ft.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Exposure to extreme heat. Exposure to open flame.
Hazardous Reactions	Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicology studies have not been performed on this product as formulated. The acute toxicology information has been bridged from similar formulations, containing a higher percent of the active ingredient, permethrin. The non-acute information pertains to the permethrin technical.

Acute Oral Toxicity	male/female rat: LD50: > 5,000 mg/kg (1% Dust)
Acute Dermal Toxicity	male/female rabbit: LD50: > 10,000 mg/kg (1% Dust)
Acute Inhalation Toxicity	male/female rat: LC50: > 2.3 mg/l Exposure time: 4 h Maximum attainable concentration. No deaths Determined in the form of dust. (actual) (1% Dust) male/female rat: LC50: > 9.2 mg/l Exposure time: 1 h Determined in the form of dust. Extrapolated from the 4 hr LC50. (actual)
Skin Irritation	rabbit: slight irritation



Material Safety Data Sheet

MSDS Number: 102000012217
MSDS Version 2.0

BAYER ADVANCED COMPLETE BRAND INSECT DUST FOR GARDENS READY-TO-USE

(1% Dust)

Eye Irritation	rabbit: Mild eye irritation (1% Dust)
Sensitization	guinea pig: Non-sensitizing (25% Wettable Powder)
Subchronic Toxicity	Short-term exposure to permethrin caused neurobehavioral effects (e.g., tremors) and/or organ weight changes (liver) in rats, mice and dogs.
Chronic Toxicity	Long-term exposure to permethrin caused neurobehavioral effects (e.g., tremors) and/or organ effects (liver, lung, kidney) in rats, mice and dogs.

Assessment Carcinogenicity

EPA has concluded the likelihood of oncogenicity effects in humans from permethrin is nonexistent or extremely low based on the low oncogenic potential in mice, and no oncogenic potential in rats.

ACGIH

None.

NTP

None.

IARC

Permethrin

52645-53-1

Overall evaluation: 3

OSHA

None.

Reproductive & Developmental Toxicity	Permethrin was not a reproductive toxicant in multi-generation reproduction studies in rats.
Neurotoxicity	Permethrin caused neurobehavioral effects (e.g. tremors) in an acute and subchronic neurotoxicity screening study in rats without any correlating neuropathological changes.
Mutagenicity	Permethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo mutagenicity studies.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions	Toxic to fish. Do not apply directly to water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
----------------------------------	--



Material Safety Data Sheet

BAYER ADVANCED COMPLETE BRAND INSECT DUST FOR GARDENS READY-TO-USE

MSDS Number: 102000012217
MSDS Version 2.0

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Do not re-use empty containers. Contact your state Pesticide or EPA Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Never place unused product down any indoor or outdoor drain.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
Not regulated for transportation

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

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 28293-125-72155

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

Permethrin 52645-53-1 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

Permethrin 52645-53-1 NJ

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants



Material Safety Data Sheet

BAYER ADVANCED COMPLETE BRAND INSECT DUST FOR GARDENS READY-TO-USE

MSDS Number: 102000012217
MSDS Version 2.0

None.
Safe Drinking Water Act Maximum Contaminant Levels
None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)
Permethrin 52645-53-1

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
Health - 2 Flammability - 0 Reactivity - 0 Others - none
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Update address; revise name; revise number due to new system.

Revision Date: 05/25/2005

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