



Material Safety Data Sheet
CRITERION™ 75 WSP INSECTICIDE

MSDS Number: 102000007120
 MSDS Version 1.4
 Revision Date: 03/14/2006

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name CRITERION™ 75 WSP INSECTICIDE
MSDS Number 102000007120
EPA Registration No. 432-1318

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> |
|---------------------------------|----------------|----------------------------|
| Imidacloprid | 138261-41-3 | 75.00 |

SECTION 3. HAZARDS IDENTIFICATION

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

| | |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Emergency Overview</u> | Caution! Harmful if swallowed, inhaled or absorbed through the skin. Causes eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing dust or vapor. |
| Physical State | solid powder |
| Odor | none |
| Appearance | light brown |
| Routes of Exposure | Ingestion, Eye contact, Skin contact, Skin Absorption, Inhalation |
| Immediate Effects | |
| Eye | Causes eye irritation. Avoid contact with eyes. |
| Skin | Harmful if absorbed through skin. Avoid contact with skin and clothing. |
| Ingestion | Harmful if swallowed. Do not take internally. |
| Inhalation | Harmful if inhaled. Avoid breathing dust or vapor. |



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Chronic or Delayed Long-Term This product or its components may have target organ effects.

SECTION 4. FIRST AID MEASURES

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| 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 | Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. 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 gulps 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 | There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. |

SECTION 5. FIRE FIGHTING MEASURES

| | |
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| Flash Point | not applicable |
| Suitable Extinguishing Media | water, carbon dioxide (CO2), foam, dry chemical |
| Fire Fighting Instructions | Keep 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. In the event of fire, wear self-contained breathing apparatus. |

SECTION 6. ACCIDENTAL RELEASE MEASURES



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| Personal Precautions | Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. |
| Methods for Cleaning Up | Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. |
| Additional Advice | Use personal protective equipment. Do not allow product to enter streams, sewers or other waterways. |

SECTION 7. HANDLING AND STORAGE

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling Procedures | Do not allow children or pets to enter the treated area until it has dried. Handle and open container in a manner as to prevent spillage. |
| Storing Procedures | Do not freeze. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. |
| 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. Remove and wash contaminated clothing before re-use. Before removing gloves clean them with soap and water. As soon as practical, wash thoroughly and change into clean clothing. |
| Min/Max Storage Temperatures | 30 day average temperature not to exceed 38°C (100°F). |

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Protection | Train employees in safe use of the product. Follow all label instructions. 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. |
| Engineering Controls | Ensure adequate ventilation. Use with local exhaust ventilation. |
| Eye/Face Protection | tightly fitting safety goggles |
| Hand Protection | Chemical resistant nitrile rubber gloves |
| Body Protection | Wear long-sleeved shirt and long pants and shoes plus socks. |



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Respiratory Protection When respiratory protection is necessary under the conditions of use, wear a respirator approved by the National Institute for Occupational Safety and Health (NIOSH).

Exposure Limits This product contains material which are Trade Secret and may have Occupational Exposure Limits. If more information is required, call the product information number listed in Section 1.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------|-----------------------------|
| Appearance | light brown |
| Physical State | solid powder |
| Odor | none |
| pH | 7 (1 %) suspension in water |
| Bulk Density | 30 lbs/cu.-ft. |
| Water Solubility | dispersible |

SECTION 10. STABILITY AND REACTIVITY

| | |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Stability | Stable under recommended storage conditions. |
| Hazardous Decomposition Products | Thermal decomposition hydrogen cyanide (hydrocyanic acid) Carbon monoxide nitrogen oxides (NOx) hydrogen chloride (HCl) |

SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertains to the active ingredient, imidacloprid.

| | |
|------------------------------|--------------------------------------|
| Acute Oral Toxicity | male rat: LD50: 2,591 mg/kg |
| | female rat: LD50: 1,858 mg/kg |
| Acute Dermal Toxicity | male/female rat: LD50: > 2,000 mg/kg |



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Acute Inhalation Toxicity male rat: LC50: 2.65 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.
(actual)

female rat: LC50: 2.75 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.
(actual)

male rat: LC50: 10.6 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50.
(actual)

female rat: LC50: 11.0 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50.
(actual)

Skin Irritation rabbit: Slight irritation.

Eye Irritation rabbit: Mild eye irritation.

Sensitization guinea pig: Non-sensitizing.

Subchronic Toxicity In a 3-week dermal toxicity study, rabbits treated with imidacloprid showed no local or systemic effects at levels up to and including 1000 mg/Kg, the limit dose.

In a 4-week inhalation study, rats exposed to high concentrations of imidacloprid exhibited decreased body weight gains and changes in clinical chemistries and organ weights.

Chronic Toxicity In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroid and/or liver.

Assessment Carcinogenicity

In oncogenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

- ACGIH**
None.
- NTP**
None.
- IARC**
None.
- OSHA**
None.



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Reproductive & Developmental Toxicity

REPRODUCTION: In a two-generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.

DEVELOPMENTAL TOXICITY: In developmental toxicity studies in rats and rabbits, there was no evidence of an embryonic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.

Neurotoxicity

In acute and subchronic neurotoxicity screening studies in rats, imidacloprid produced slight neurobehavioral effects in each study at the highest dose tested. There were no correlating morphological changes observed in the neural tissues.

Mutagenicity

The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

Highly toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

Highly toxic to bees. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Ecological Information

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.



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SECTION 13. DISPOSAL CONSIDERATIONS

- General Disposal Guidance** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
- Container Disposal** Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.

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

EPA Registration No. 432-1318

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

None.

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

None.

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA



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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 - 1 Reactivity - 1 Others - none

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

Reason to Revise: Removed Product Use statement from Section 1.

Revision Date: 03/14/2006

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