



**MERIT® 75 WP INSECTICIDE**

Version 2 / USA  
102000007120

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Revision Date: 12/19/2013  
Print Date: 01/05/2017

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

**Product identifier**

|                      |                          |
|----------------------|--------------------------|
| Trade name           | MERIT® 75 WP INSECTICIDE |
| Product code (UVP)   | 04399455                 |
| SDS Number           | 102000007120             |
| EPA Registration No. | 432-1314                 |

**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 no.**

All Emergencies, 24hr/ 7 days 1-800-334-7577

**Product Information**

**Telephone No.**

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

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

Eye irritation : Category 2B

Acute toxicity (Oral, Inhalation): Category 4



**Signal word:** Warning

**Hazard statements**

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

**Precautionary statements**

Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Use only outdoors or in a well-ventilated area.



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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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
Rinse mouth.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or 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

| Hazardous Component Name | CAS-No.     | Average % by Weight |
|--------------------------|-------------|---------------------|
| Imidacloprid             | 138261-41-3 | 75.00               |

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

|                       |                                                                                                                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.                                                                                                                                                            |
| <b>Inhalation</b>     | 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.                                                                                      |
| <b>Skin contact</b>   | 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.                                                                                                               |
| <b>Eye contact</b>    | 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.                                                                       |
| <b>Ingestion</b>      | 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

|                 |                                |
|-----------------|--------------------------------|
| <b>Symptoms</b> | To date no symptoms are known. |
|-----------------|--------------------------------|

**Indication of any immediate medical attention and special treatment needed**



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|                  |                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Treatment</b> | Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote. |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

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**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| <b>Suitable</b>   | Water, Carbon dioxide (CO <sub>2</sub> ), Foam, Dry chemical |
| <b>Unsuitable</b> | None known.                                                  |

**Advice for firefighters**

|                                                       |                                                                                                                                                                                        |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.                                                                               |
| <b>Further information</b>                            | 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. |

|                                 |                   |
|---------------------------------|-------------------|
| <b>Flash point</b>              | not applicable    |
| <b>Autoignition temperature</b> | no data available |
| <b>Lower explosion limit</b>    | not applicable    |
| <b>Upper explosion limit</b>    | not applicable    |
| <b>Explosivity</b>              | no data available |
| <b>Dust explosion class</b>     | no data available |

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

|                    |                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Precautions</b> | Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. |
|--------------------|------------------------------------------------------------------------------------------------------------------|

**Methods and materials for containment and cleaning up**

|                                |                                                                                                                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for cleaning up</b> | 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. |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                          |                                    |
|--------------------------|------------------------------------|
| <b>Additional advice</b> | Use personal protective equipment. |
|--------------------------|------------------------------------|

|                                    |                                                                                                                                                                                     |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reference to other sections</b> | Information regarding safe handling, see section 7.<br>Information regarding personal protective equipment, see section 8.<br>Information regarding waste disposal, see section 13. |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

- Advice on safe handling** Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.
- Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.  
Contaminated work clothing should not be allowed out of the workplace. Remove contaminated clothing immediately and dispose of safely.
- Conditions for safe storage, including any incompatibilities**
- Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

| Components                                          | CAS-No.     | Control parameters   | Update  | Basis    |
|-----------------------------------------------------|-------------|----------------------|---------|----------|
| Imidacloprid                                        | 138261-41-3 | 0.7 mg/m3<br>(TWA)   |         | OES BCS* |
| Imidacloprid                                        | 138261-41-3 | 5 ug/m3<br>(AN ESL)  | 07 2011 | TX ESL   |
| Imidacloprid                                        | 138261-41-3 | 50 ug/m3<br>(ST ESL) | 07 2011 | TX ESL   |
| Sodium aluminium silicate<br>(Respirable fraction.) | 1344-00-9   | 1 mg/m3<br>(TWA)     | 02 2012 | ACGIH    |
| Sodium aluminium silicate<br>(Particulate.)         | 1344-00-9   | 5 ug/m3<br>(AN ESL)  | 02 2013 | TX ESL   |
| Sodium aluminium silicate<br>(Particulate.)         | 1344-00-9   | 50 ug/m3<br>(ST ESL) | 02 2013 | TX ESL   |

\*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.



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|                                    |                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory protection</b>      | 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. |
| <b>Hand protection</b>             | Chemical resistant nitrile rubber gloves                                                                                                                                                                         |
| <b>Eye protection</b>              | Tightly fitting safety goggles                                                                                                                                                                                   |
| <b>Skin and body protection</b>    | Wear long-sleeved shirt and long pants and shoes plus socks.                                                                                                                                                     |
| <b>General protective measures</b> | Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.<br>Keep and wash PPE separately from other laundry.                  |

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| <b>Appearance</b>                | white to light beige                        |
| <b>Physical State</b>            | powder                                      |
| <b>Odor</b>                      | none                                        |
| <b>Odour Threshold</b>           | no data available                           |
| <b>pH</b>                        | 7 (1 %) suspension in water                 |
| <b>Vapor Pressure</b>            | no data available                           |
| <b>Vapor Density (Air = 1)</b>   | no data available                           |
| <b>Bulk density</b>              | 30 lb/ft <sup>3</sup> (bulk density tapped) |
| <b>Evapouration rate</b>         | not applicable                              |
| <b>Boiling Point</b>             | not applicable                              |
| <b>Melting / Freezing Point</b>  | not applicable                              |
| <b>Water solubility</b>          | dispersible                                 |
| <b>Minimum Ignition Energy</b>   | no data available                           |
| <b>Decomposition temperature</b> | no data available                           |



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|                                               |                   |
|-----------------------------------------------|-------------------|
| <b>Partition coefficient: n-octanol/water</b> | no data available |
| <b>Viscosity</b>                              | not applicable    |
| <b>Flash point</b>                            | not applicable    |
| <b>Autoignition temperature</b>               | no data available |
| <b>Lower explosion limit</b>                  | not applicable    |
| <b>Upper explosion limit</b>                  | not applicable    |
| <b>Explosivity</b>                            | no data available |
| <b>Dust explosion class</b>                   | no data available |

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**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

**Thermal decomposition** no data available

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.

**Conditions to avoid** no data available

**Incompatible materials** no data available

**Hazardous decomposition products** Hydrogen cyanide (hydrocyanic acid)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride (HCl)

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Ingestion, Eye contact, Skin contact, Skin Absorption, Inhalation

**Immediate Effects**  
**Eye** Causes eye irritation.



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**Skin** Harmful if absorbed through skin.

**Ingestion** Harmful if swallowed.

**Inhalation** Harmful if inhaled.

**Information on toxicological effects**

**Acute oral toxicity** LD50 (male rat) 2,591 mg/kg  
LD50 (female rat) 1,858 mg/kg

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

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

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

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

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

**Skin irritation** Slight irritation (rabbit)

**Eye irritation** Minimally irritating. (rabbit)

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

**Assessment repeated dose toxicity**

Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

**Assessment Mutagenicity**

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

**Assessment Carcinogenicity**

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

**ACGIH**



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None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

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.

**Assessment 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.

**Further information**

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

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**SECTION 12: ECOLOGICAL INFORMATION**

|                                          |                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toxicity to fish</b>                  | LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 211 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient imidacloprid.                                                                                                                                                             |
| <b>Toxicity to aquatic invertebrates</b> | EC50 (Water flea ( <i>Daphnia magna</i> )) 85 mg/l<br>Exposure time: 48 h<br>The value mentioned relates to the active ingredient imidacloprid.<br><br>LC50 ( <i>Chironomus riparius</i> (non-biting midge)) 0.0552 mg/l<br>Exposure time: 24 h<br>The value mentioned relates to the active ingredient imidacloprid. |
| <b>Toxicity to aquatic plants</b>        | EC50 ( <i>Desmodesmus subspicatus</i> ) > 10 mg/l<br>Growth rate; Exposure time: 72 h<br>The value mentioned relates to the active ingredient imidacloprid.                                                                                                                                                           |
| <b>Biodegradability</b>                  | Imidacloprid: not rapidly biodegradable                                                                                                                                                                                                                                                                               |
| <b>Koc</b>                               | Imidacloprid: Koc:225                                                                                                                                                                                                                                                                                                 |
| <b>Bioaccumulation</b>                   | Imidacloprid:<br>Does not bioaccumulate.                                                                                                                                                                                                                                                                              |



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|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mobility in soil</b>          | Imidacloprid: Moderately mobile in soils                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Environmental precautions</b> | <p>Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.</p> <p>Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.</p> <p>Do not allow to get into surface water, drains and ground water.</p> <p>Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.</p> |

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

|                               |                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>                | <p>Do not contaminate water, food, or feed by disposal.</p> <p>Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.</p> <p>If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.</p> |
| <b>Contaminated packaging</b> | <p>Follow advice on product label and/or leaflet.</p> <p>Do not re-use empty containers.</p>                                                                                                                                                                                                                                                                                                                 |
| <b>RCRA Information</b>       | <p>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.</p>                                                                                                                                                                                               |

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**SECTION 14: TRANSPORT INFORMATION**

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| <b>49CFR</b>         | Not dangerous goods / not hazardous material                              |
| <b>IMDG</b>          |                                                                           |
| UN number            | <b>3077</b>                                                               |
| Class                | 9                                                                         |
| Packaging group      | III                                                                       |
| Marine pollutant     | YES                                                                       |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID MIXTURE) |
| <b>IATA</b>          |                                                                           |
| UN number            | <b>3077</b>                                                               |
| Class                | 9                                                                         |
| Packaging group      | III                                                                       |



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|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Environm. Hazardous Mark | YES                                                                              |
| Proper shipping name     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S.<br>(IMIDACLOPRID MIXTURE ) |

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<br>POISON |
|-------------------------|----------------------------------------------------------|

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**SECTION 15: REGULATORY INFORMATION**

|                      |          |
|----------------------|----------|
| EPA Registration No. | 432-1314 |
|----------------------|----------|

**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**

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



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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.  
Causes eye irritation.  
Avoid contact with skin, eyes and clothing.  
Avoid breathing dust or vapour.  
Wash thoroughly with soap and water after handling.  
Remove and wash contaminated clothing before re-use.

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**SECTION 16: OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Instability - 1      Others - none

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

Health - 1      Flammability - 1      Physical Hazard - 1      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: 12/19/2013

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