



## Merit Solupak 75% WP

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** Merit Solupak 75% WP  
**Chemical Name**  
**Common Name**  
**MSDS Number** 2092  
**Chemical Family**  
**Chemical Formulation**  
**PCP Registration No.** 25932

Bayer CropScience  
 #100 - 3131 - 114th Avenue SE  
 Calgary, AB T2Z 3X2  
 Canada

Emergency Number (24 Hours/Day): 1-800-334-7577 Product Information: 1-888-283-6847

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Imidacloprid Technical	138261-41-3	>= 74.0000	<= 75.0000

### SECTION 3. HAZARDS IDENTIFICATION

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

**Physical State** Powder  
**Odor** None  
**Appearance** Light brown  
**Routes of Exposure** Dust inhalation, Skin absorption, Ingestion, Eye contact, Inhalation  
**Immediate Effects**  
**General** Avoid contamination of food. Keep away from domestic animals.  
**Eye** Moderately irritating.  
**Skin** Mildly irritating. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.  
**Ingestion** Harmful if swallowed. Use of alcoholic beverages may enhance toxic effects.

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<b>Inhalation</b>	Can cause upper respiratory tract irritation.
<b>Chronic or Delayed Long-Term</b>	Prolonged contact can cause liver damage, kidney damage, central nervous system damage, anemia.
<b>Target Organs</b>	Eyes, Lungs, Skin, Kidney, Liver, Blood, Bladder

### SECTION 4. FIRST AID MEASURES

<b>General</b>	Call the Medical Emergency Telephone Number on page 1 for additional information and/or instructions.
<b>Eye</b>	Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 15 minutes, then continue rinsing eye. Get medical attention immediately.
<b>Skin</b>	In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned.
<b>Ingestion</b>	If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. If syrup of ipecac is available, administer 1 tablespoonful (1/2 oz or 15 mL), otherwise induce vomiting by sticking finger down throat. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention. Call a poison control center or doctor for treatment advice. If not breathing, give artificial respiration, preferably mouth to mouth.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash Point</b>	Does not flash
<b>Suitable Extinguishing Media</b>	Use extinguishing method suitable for surrounding fire., Earth, Chemical foam, Foam, Carbon dioxide (CO2), Keep containers and surroundings cool with water spray.
<b>Fire Fighting Instructions</b>	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

**General and Disposal** Pesticide Disposal: If burned, stay out of smoke. Wear appropriate gear for the situation. See Personal Protection information in Section 8. Stay upwind if possible. Cleanup and Disposal of Spill: Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Decontaminate tools and equipment following cleanup. Keep unnecessary people away, isolate hazard area and deny entry. Shovel up into an appropriate closed container. Clean up residual material by washing area with water. Avoid creation of dusty conditions. Ventilate closed spaces before entering. Notify the appropriate authorities immediately. Isolate hazard area. Do not walk through spilled material. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

## SECTION 7. HANDLING AND STORAGE

**Handling Procedures** Wash with soap and water after handling. Harmful if swallowed. Avoid breathing dusts. Do not ingest. Remove pets, birds and cover fish aquaria before spraying or surface applications.

**Storing Procedures** Store in an area that is away from food, feedstuffs, fertilizers and seed, away from the home or home garden. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Store in an area that is dry and well-ventilated.

**Min/Max Storage Temperatures** Do not transport or store below 15 °C / 59 °F  
Do not transport or store above 200 °C / 392 °F  
Not available

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Where engineering controls are indicated by use conditions of a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: General area dilution/exhaust ventilation.

**Eye/Face Protection** Goggles

**Hand Protection** Chemical resistant gloves

**Body Protection** Shoes plus socks. Coveralls over long sleeved shirt and long pants. Waterproof boots

**Respiratory Protection** Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against organic vapors.

**Exposure Limits**

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light brown
<b>Physical State</b>	Powder
<b>Odor</b>	None
<b>pH</b>	7.1 g/l at 25 °C
<b>Vapor Pressure</b>	1.5 x 10 <sup>-9</sup> mm Hg at 20 C
<b>Vapor Density (air = 1)</b>	Not available
<b>Bulk Density</b>	480.55 kg/m <sup>3</sup>
<b>Solubility (in water)</b>	9.5 g/l

## SECTION 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	24 Months 25 °C
<b>Hazardous Products of Decomposition</b>	Hydrogen cyanide (hydrocyanic acid) Hydrochloric acid Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.
<b>Hazardous Polymerization (Conditions to avoid)</b>	Stable under normal conditions. Strong exothermic reaction above 200 C.

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Acute Oral Toxicity</b>	Male Rat: LD50: 2,591 mg/kg Female Rat: LD50: 1,858 mg/kg
<b>Acute Dermal Toxicity</b>	Male and Female Rat: LD50: 2,000 mg/kg
<b>Acute Inhalation Toxicity</b>	Male Rat: LC50: 4-hr exposure to liquid aerosol: 2.65 mg/l Female Rat: LC50: 4-hr exposure to liquid aerosol: 2.75 mg/l
<b>Skin Irritation</b>	Rabbit: Slight dermal irritant.

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<b>Eye Irritation</b>	Rabbit: Mild irritation to the cornea and conjunctiva was observed with all irritation clearing within 7 days post-treatment.
<b>Sensitization</b>	Guinea pig: Not a skin sensitizer.
<b>Sub-Chronic Toxicity</b>	In a 3 week dermal toxicity study, rabbits were treated with the active ingredient, imidacloprid, at the limit dose level of 1000 mg/kg for 6 hours/day, 5 days/week. There were no local or systemic effects observed at any of the levels tested. The NOEL was 1000 mg/kg. Liver toxicity was shown in rats with a NOEL of 5.5 mg/cubic meter.
<b>Chronic Toxicity</b>	Rat: Imidacloprid was investigated for carcinogenicity in chronic feeding studies using mice and rats at maximum levels of 2000 and 1800 pp. There was no evidence of carcinogenic potential observed.
<b>Assessment Carcinogenicity</b>	
<b>ACGIH</b>	None
<b>NTP</b>	None
<b>IARC</b>	None
<b>OSHA</b>	None
<b>Neurotoxicity</b>	In rats neurobehavioral changes were observed only in males at high doses. The NOEL for neurotoxicity was 3027 ppm.

## SECTION 12. ECOLOGICAL INFORMATION

<b>Environmental Precautions</b>	Do not apply when wind speeds exceed 10 mph. 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 water used for irrigation or domestic purposes.
<b>Ecological Information</b>	For ecotoxicological data call the product information phone number listed in Section 1.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### General Disposal Guidance

Pesticide Disposal: Do not contaminate water, food, or feed by disposal. Pesticide wastes are acutely hazardous. Waste, including spills or rinsates, and leftover pesticide that cannot be used according to label instructions must be disposed of according to applicable federal, state or local procedures. Any disposal practice must be in compliance with all Federal, State/provincial, and local laws and regulations. Do not dispose of product (or container) in or near any body of water. 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. Do not reuse empty container. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer systems. Do not reuse original container. Packaging that cannot be cleaned should be disposed of as product waste. Uncontrolled disposal or recycling of this packaging is not permitted and can be dangerous.

### RCRA Classification

## SECTION 14. TRANSPORT INFORMATION

## SECTION 15. REGULATORY INFORMATION

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### US Federal Regulations

#### TSCA list

None

#### TSCA 12b export notification

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

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### 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

### International Regulations

#### EU Classification

None

#### European Inventory of Existing Commercial Substances (EINECS)

None

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## SECTION 16. OTHER INFORMATION

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New MSDS template as a result of new MSDS format. Prepared by HSE Bayer CropScience Inc. (306)-721-0310.

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