



Safety Data Sheet

MERIT® SOLUPAK® INSECTICIDE 75% WETTABLE POWDER IN WATER SOLUBLE PACKETS

SDS Number: 102000007120
 SDS Version 1.4
 Revision Date: 02/20/2014
 Print Date: 02/21/2014

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name MERIT® SOLUPAK® INSECTICIDE 75% WETTABLE POWDER IN WATER SOLUBLE PACKETS
SDS Number 102000007120
Product code (UVP) 04399455
PCP Registration No. 25932
Product Use Insecticide

Bayer CropScience Inc
 #200, 160 Quarry Park Blvd, SE
 Calgary, Alberta T2C 3G3
 Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
 For Product Information call: 1-888-283-6847

SECTION 2. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! 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.

Physical State powder
Odor none
Appearance white to light beige
Exposure routes Ingestion, Eye contact, Skin contact, Skin Absorption, Inhalation
Immediate Effects
Eye Causes eye irritation.
Skin Harmful if absorbed through skin.
Ingestion Harmful if swallowed.
Inhalation Harmful if inhaled.



Safety Data Sheet

SDS Number: 102000007120
SDS Version 1.4

MERIT® SOLUPAK® INSECTICIDE 75% WETTABLE POWDER IN WATER SOLUBLE PACKETS

Potential Environmental Effect Highly toxic to aquatic invertebrates. 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	75.00

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	
Signs and Symptoms	To date no symptoms are known.
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	not applicable
Autoignition temperature	no data available



Safety Data Sheet

SDS Number: 102000007120
SDS Version 1.4

MERIT® SOLUPAK® INSECTICIDE 75% WETTABLE POWDER IN WATER SOLUBLE PACKETS

Lower Flammability Limit	not applicable
Upper Flammability Limit	not applicable
Explosiveness	no data available
Suitable extinguishing media	Water, Carbon dioxide (CO2), Foam, Dry chemical
Unsuitable extinguishing media	None known.
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>
Dust explosion class	no data available

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	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.

SECTION 7. HANDLING AND STORAGE

Handling procedures	Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.
Storing Procedures	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. Protect from freezing.
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.



Safety Data Sheet

SDS Number: 102000007120
SDS Version 1.4

**MERIT® SOLUPAK® INSECTICIDE 75% WETTABLE
POWDER IN WATER SOLUBLE PACKETS**

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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection	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.
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.
Respiratory protection	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/m3
Sodium aluminium silicate	1344-00-9	CAD BC OEL	TWA	1 mg/m3
		CAD MB OEL	TWA	1 mg/m3
		CAD ON OEL	TWAEV	1 mg/m3

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to light beige
Physical State	powder
Odor	none
pH	7 (1 %) suspension in water
Vapor Pressure	no data available



Safety Data Sheet

SDS Number: 102000007120
SDS Version 1.4

**MERIT® SOLUPAK® INSECTICIDE 75% WETTABLE
POWDER IN WATER SOLUBLE PACKETS**

Vapor Density (Air = 1)	no data available
Bulk density	30 lb/ft ³ (bulk density tapped)
Evaporation rate	not applicable
Boiling Point	not applicable
Melting / Freezing Point	not applicable
Water solubility	dispersible
Minimum Ignition Energy	no data available
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	no data available
Viscosity	not applicable

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	no data available
Incompatibility	no data available
Hazardous Decomposition Products	Thermal decomposition Hydrogen cyanide (hydrocyanic acid) Carbon monoxide Nitrogen oxides (NO _x) Hydrogen chloride (HCl)
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Chemical Stability	Stable under recommended storage conditions.

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.



Safety Data Sheet

SDS Number: 102000007120
SDS Version 1.4

MERIT® SOLUPAK® INSECTICIDE 75% WETTABLE POWDER IN WATER SOLUBLE PACKETS

Acute oral toxicity	male rat: LD50: 2,591 mg/kg female rat: LD50: 1,858 mg/kg
Acute dermal toxicity	male/female combined rat: LD50: > 2,000 mg/kg
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: Minimally irritating.
Sensitisation	guinea pig: Non-sensitizing.
Chronic toxicity	Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

Assessment Carcinogenicity

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

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.



Safety Data Sheet

SDS Number: 102000007120
SDS Version 1.4

MERIT® SOLUPAK® INSECTICIDE 75% WETTABLE POWDER IN WATER SOLUBLE PACKETS

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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish	Rainbow trout (<i>Oncorhynchus mykiss</i>) LC50: 211 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient imidacloprid.
Toxicity to aquatic plants	<i>Desmodium subspicatus</i> Growth rate EC50: > 10 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient imidacloprid.
Acute Toxicity to Aquatic Invertebrates	Water flea (<i>Daphnia magna</i>) EC50: 85 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient imidacloprid. <i>Chironomus riparius</i> (non-biting midge) LC50: 0.0552 mg/l Exposure time: 24 h The value mentioned relates to the active ingredient imidacloprid.
Environmental precautions	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. Do not allow to get into surface water, drains and ground water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.



Safety Data Sheet

SDS Number: 102000007120
SDS Version 1.4

**MERIT® SOLUPAK® INSECTICIDE 75% WETTABLE
POWDER IN WATER SOLUBLE PACKETS**

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Do not contaminate water, food, or feed by disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. 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.

Container Disposal Follow advice on product label and/or leaflet. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

TDG Not dangerous goods / not hazardous material

49CFR Not dangerous goods / not hazardous material

IMDG

UN number **3077**
Class 9
Packaging group III
Marine pollutant YES
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID MIXTURE)

IATA

UN number **3077**
Class 9
Packaging group III
Environm. Hazardous Mark YES
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (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 POISON

SECTION 15. REGULATORY INFORMATION

PCP Registration No. 25932
US Federal Regulations TSCA list
None.



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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.

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: Reviewed and updated for general editorial purposes.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

Revision Date: 02/20/2014

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