

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
102000007120

1/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

### 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 supplier	
Supplier	Bayer Environmental Science A division of Bayer CropScience LP 5000 Centregreen Way, Suite 400 Cary, NC 27513 USA
Responsible Department	Email: SDSINFO.BCS-NA@bayer.com

#### Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577
Product Information Telephone Number	1-800-331-2867

### SECTION 2: HAZARDS IDENTIFICATION

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

Acute toxicity(Oral, Inhalation): Category 4  
Combustible dust

#### Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Warning

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
102000007120

2/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

### Hazard statements

Harmful if swallowed.  
Harmful if inhaled.  
May form combustible dust - air mixtures.  
Conduct Dust Hazard Assessment (DHA).

### Precautionary statements

Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid breathing dust.  
Use only outdoors or in a well-ventilated area.  
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
Rinse mouth.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor/physician if you feel unwell.  
Dispose of contents/container in accordance with local regulation.

### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Imidacloprid	138261-41-3	75.0
Sodium lignosulphonate	8061-51-6	5.0
Naphthalenesulfonic acid, bis(1-methylethyl)-, Me derivs., sodium salts	68909-82-0	3.2

## 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.

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
10200007120

3/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

**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.

### Most important symptoms and effects, both acute and delayed

**Symptoms** To date no symptoms are known.

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

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

---

## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

**Suitable** Water, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical

**Unsuitable** High volume water jet

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

### Advice for firefighters

**Special protective equipment for firefighters** In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** 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.

### Specific hazards from the substance or mixture which can increase the fire

**Flash point** Not applicable

**Auto-ignition temperature** No data available

**Lower explosion limit** Not applicable

**Upper explosion limit** Not applicable

**Explosivity** No data available

**Dust explosion class** No data available

---

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
102000007120

4/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

#### Methods and materials for containment and cleaning up

**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. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Avoid dust formation. Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**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.

#### 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. Keep away from direct sunlight.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
------------	---------	--------------------	--------	-------

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
102000007120

5/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

Imidacloprid	138261-41-3	0.7 mg/m <sup>3</sup> (TWA)		OES BCS*
--------------	-------------	--------------------------------	--	----------

\*OES BCS: Internal Bayer AG, Crop Science Division "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.

#### 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.

#### Hand protection

Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)

#### Eye protection

Tightly fitting safety goggles

#### Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

#### General protective measures

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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Form	powder
Colour	white to light beige
Odour	none
Odour Threshold	No data available
pH	7 (1 %) suspension in water
Melting point/range	No data available
Boiling Point	Not applicable
Flash point	Not applicable
Flammability	No data available
Auto-ignition temperature	No data available
Thermal decomposition	No data available
Minimum ignition energy	> 100 - < 300 mJ
Self-accelerating	No data available

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
10200007120

6/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

### decomposition temperature (SADT)

<b>Upper explosion limit</b>	Not applicable
<b>Lower explosion limit</b>	Not applicable
<b>Dust explosion class</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Evaporation rate</b>	Not applicable
<b>Relative vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Density</b>	No data available
<b>Bulk density</b>	30 lb/ft <sup>3</sup> (bulk density tapped)
<b>Water solubility</b>	dispersible
<b>Partition coefficient: n-octanol/water</b>	Imidacloprid: log Pow: 0.57
<b>Viscosity, dynamic</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>Explosivity</b>	No data available
<b>Other information</b>	Further safety related physical-chemical data are not known.

### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	No incompatible materials known.
<b>Hazardous decomposition products</b>	Hydrogen cyanide (hydrocyanic acid) Carbon monoxide Nitrogen oxides (NO <sub>x</sub> ) Hydrogen chloride (HCl)

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
102000007120

7/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

### SECTION 11: TOXICOLOGICAL INFORMATION

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

#### Immediate Effects

**Eye** May cause temporary eye irritation.

**Skin** May be harmful in contact with 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)

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

**Skin corrosion/irritation** slight irritation (Rabbit)

**Serious eye damage/eye irritation** Minimally irritating. (Rabbit)

**Respiratory or skin sensitisation** Skin: Non-sensitizing. (Guinea pig)

#### Assessment STOT Specific target organ toxicity – single exposure

Imidacloprid: Based on available data, the classification criteria are not met.

#### Assessment STOT Specific target organ toxicity – repeated exposure

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

None.

#### NTP

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
102000007120

8/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

None.

### IARC

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.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Further information

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

---

## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 211 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient imidacloprid.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 85 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient imidacloprid.
	EC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l Exposure time: 24 h The value mentioned relates to the active ingredient imidacloprid.
<b>Chronic toxicity to aquatic invertebrates</b>	EC10 (Chironomus riparius (non-biting midge)): 2,09 µg/l Exposure time: 28 d The value mentioned relates to the active ingredient imidacloprid.
<b>Toxicity to aquatic plants</b>	IC50 (Desmodesmus subspicatus (green algae)) > 10 mg/l Growth rate; Exposure time: 72 h 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:



# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
10200007120

9/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

---

	Does not bioaccumulate.
<b>Mobility in soil</b>	Imidacloprid: Moderately mobile in soils
<b>Results of PBT and vPvB assessment</b>	
<b>PBT and vPvB assessment</b>	Imidacloprid: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
<b>Additional ecological information</b>	No further ecological information is available.
<b>Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

---

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Product</b>	Dispose in accordance with all local, state/provincial and federal regulations.
<b>Contaminated packaging</b>	Consult state and local regulations regarding the proper disposal of container. Follow advice on product label and/or leaflet.
<b>RCRA Information</b>	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.

---

### 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
Environm. Hazardous Mark	YES

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
102000007120

10/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

Proper shipping name 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

**EPA Registration No.** 432-1314

**US Federal Regulations**

**TSCA list**

Sodium aluminium silicate	1344-00-9
Sodium lignosulphonate	8061-51-6
Naphthalenesulfonic acid, bis(1-methylethyl)-, Me derivs., sodium salts	68909-82-0

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

No export notification needs to be made.

**SARA Title III - Section 302 - Notification and Information**

Not applicable.

**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**

Sodium aluminium silicate	1344-00-9	CA
---------------------------	-----------	----

**Environmental**

**CERCLA**

None.

**Clean Water Section 307(a)(1)**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**EPA/FIFRA Information:**

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
102000007120

11/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

This chemical is a pesticide product regulated by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification 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.

### SECTION 16: OTHER INFORMATION

#### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

#### NFPA 704 (National Fire Protection Association):

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

#### HMIS (Hazardous Materials Identification System, based on the Fourth 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,  
\* = chronic health hazard

**Reason for Revision:** The following sections have been revised: Section 11: Toxicological Information. Section 13. Disposal considerations. Section 15: Regulatory information. Reviewed and updated for general editorial purposes.

**Revision Date:** 11/08/2022

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

# SAFETY DATA SHEET



## MERIT® 75 WP INSECTICIDE

Version 4.0 / USA  
102000007120

12/12  
Revision Date: 11/08/2022  
Print Date: 11/10/2022

---

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