

## NOTICE OF PESTICIDE APPLICATION Rancho Santa Margarita Landscape and Recreation Corporation

Date of Application: 9/1/2024 to 9/30/2024

Location: ARROYO VISTA, CIELO VISTA, LAKE PARK, TRABUCO MESA, TIJERAS CREEK, ALTISSIMA, MONTE VISTA, VISTA VERDE, CENTRAL PARK, SOLANA PARK, ESTRELLA VISTA, CANADA VISTA

**Product and Manufacturer Name: MERIT, BAYER ENVIROMENTAL SCIENCE** 

**Safety Precautions, Active Ingredients, and US EPA Number:** Active Ingredient: Imidacloprid, 1-{(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimin 21.4 % EPA REGISTRATION: 432-1312

CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin. eyes, or clothing. Wash thoroughly with soap and

water after handling. Keep children or pets off treated area unlil spray is dry.

**Reason for Application:** Insecticide used mainly for grubs in turf.

**Label and MSDS Sheet Attached** 



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## **MERIT® 2F INSECTICIDE**

Version 3.0 / USA 102000015064

Revision Date: 03/07/2014 Print Date: 01/26/2018

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

Product identifier

Trade name

MERIT® 2F INSECTICIDE

Product code (UVP)

06004481

**SDS Number** 

102000015064

EPA Registration No.

432-1312

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

USA

**Emergency Telephone** Number (24hr/ 7 days) 1-800-334-7577

**Product Information Telephone Number** 

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 Signal word: Warning

**Hazard statements** 

Causes eye irritation.

**Precautionary statements** 

Wash thoroughly after handling.

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.

Other hazards

No other hazards known.



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#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous Component Name** 

Imidacloprid Glycerine CAS-No.

138261-41-3 56-81-5 Average % by Weight

21.40 10.00

#### **SECTION 4: FIRST AID MEASURES**

#### **Description of first aid measures**

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

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.

Skin contact 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.

Eye contact 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.

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. There is no specific antidote.

#### **SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media** 

Suitable Water spray, Foam, Carbon dioxide (CO2), Dry chemical

Unsuitable None known.

Advice for firefighters

Special protective Firefighters should wear NIOSH approved self-contained breathing

equipment for fire-fighters apparatus and full protective clothing.



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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.

Flash point

> 93 °C

Autoignition temperature

no data available

Lower explosion limit Upper explosion limit no data available

**Explosivity** 

not applicable

**Dust explosion class** 

Not applicable.

#### **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 Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Collect and transfer the product

into a properly labelled and tightly closed container. Clean

contaminated floors and objects thoroughly, observing environmental

regulations.

Additional advice Use personal protective equipment. 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 Handle and open container in a manner as to prevent spillage. Maintain

exposure levels below the exposure limit through the use of general and

local 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.

Conditions for safe storage, including any incompatibilities



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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 (TWA)		OES BCS*
Imidacloprid	138261-41-3	5ug/m3 (AN ESL)	07 2011	TX ESL
Imidacloprid	138261-41-3	50ug/m3 (ST ESL)	07 2011	TX ESL
Glycerine (Total dust.)	56-81-5	15 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Total dust.)	56-81-5	10 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Total dust and mist.)	56-81-5	10 mg/m3 (TWA)	06 2008	TN OEL
Glycerine (Respirable fraction and dust or fume.)	56-81-5	5 mg/m3 (TWA)	06 2008	TN OEL
Glycerine (Particulate.)	56-81-5	50ug/m3 (ST ESL)	02 2013	TX ESL
Glycerine (Particulate.)	56-81-5	5ug/m3 (AN ESL)	02 2013	TX ESL
Glycerine (Vapor.)	56-81-5	100ug/m3 (AN ESL)	02 2013	TX ESL
Glycerine (Vapor.)	56-81-5	1000ug/m3 (ST ESL)	02 2013	TX ESL

<sup>\*</sup>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.

#### 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.



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Hand protection

Chemical resistant nitrile rubber gloves

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**

**Appearance** 

white to light beige

**Physical State** 

liquid suspension

Odor

mild

**Odour Threshold** 

no data available

Hq

7.5

Vapor Pressure

no data available

Vapor Density (Air = 1)

no data available

Density

1.12 g/cm3 at 20 °C

**Evapouration rate** 

no data available

**Boiling Point** 

no data available

**Melting / Freezing Point** 

-6.7 °C / 19.9 °F

Water solubility

dispersible

Minimum Ignition Energy

not applicable

Decomposition

no data available

temperature

Partition coefficient: n-

octanol/water

no data available

**Viscosity** 

350 - 600 mPa.s

Flash point

> 93 °C

Autoignition temperature

no data available

Lower explosion limit

no data available

**Upper explosion limit** 

no data available

**Explosivity** 

not applicable

**Dust explosion class** 

Not applicable.

## Bayer Environmental Science



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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 dangerous reaction known under conditions of normal use.

Conditions to avoid

freezing

Incompatible materials

no data available

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** 

Ingestion, Skin Absorption, Eye contact, Inhalation

**Immediate Effects** 

Eye

May cause mild irritation to eyes.

Skin

May cause slight irritation. Harmful if absorbed through skin.

Ingestion

Harmful if swallowed.

#### Information on toxicological effects

Acute oral toxicity

LD50 (male rat) > 4,870 mg/kg LD50 (female rat) 4,143 mg/kg

Acute inhalation toxicity

LC50 (male/female combined rat) > 5.33 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

(actual)

LC50 (male/female combined rat) > 20 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 rabbit) > 2,000 mg/kg

Skin irritation

No skin 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**



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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** 

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).

#### SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish

LC50 (Rainbow trout (Oncorhynchus mykiss)) 211 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient imidacloprid.

Toxicity to aquatic invertebrates

EC50 (Water flea (Daphnia magna)) 85 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient imidacloprid.

LC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l

Exposure time: 24 h

The value mentioned relates to the active ingredient imidacloprid.

Toxicity to aquatic plants

EC50 (Desmodesmus subspicatus) > 10 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient imidacloprid.

Biodegradability

Imidacloprid: ; not rapidly biodegradable



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Koc Imidacloprid: Koc: 225

Bioaccumulation Imidacloprid: ; Does not bioaccumulate.

Mobility in soil Imidacloprid: Moderately mobile in soils

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.

Apply this product as specified on the label.

Do not apply this product or allow it to drift to blooming crops or weeds if

bees are visiting the treatment area.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

**Product** Do not contaminate water, food, or feed by disposal.

Dispose in accordance with all local, state/provincial and federal

regulations.

**Contaminated packaging** Do not re-use empty containers.

Triple rinse containers.

Then offer for recycling or reconditioning or puncture and dispose of in a

sanitary landfill or incineration, or if allowed by State and Local

authorities, by burning.
If burned, stay out of smoke.

RCRA Information 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**

49CFR Not dangerous goods / not hazardous material

IMDG

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(IMIDACLOPRID SOLUTION)

**IATA** 

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES



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Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(IMIDACLOPRID SOLUTION)

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.** 

432-1312

**US Federal Regulations** 

**TSCA list** 

Glycerine

56-81-5

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** 

Glycerine

56-81-5

MN

**Canadian Regulations** 

**Canadian Domestic Substance List** 

Glycerine

56-81-5

**Environmental** 

**CERCLA** 

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

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

Glycerine

56-81-5

**EPA/FIFRA Information:** 



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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 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:

Hazard to humans and domestic animals. Keep out of reach of children and animals. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes and clothing.

Avoid breathing spray mist.

#### **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: 03/07/2014

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