

## **Material Safety Data Sheet**

## BAYER ADVANCED FRUIT, CITRUS & VEGETABLE INSECT CONTROL CONCENTRATE

MSDS Number: 102000021168 MSDS Version 1.0 Revision Date: 06/25/2009

#### **SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

Product Name BAYER ADVANCED FRUIT, CITRUS & VEGETABLE INSECT CONTROL

**CONCENTRATE** 

**MSDS Number** 102000021168 **EPA Registration No.** 72155-92

Bayer Environmental Science 2 T.W. Alexander Drive

Research Triangle PK, NC 27709

USA

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

For Product Information call: 1-800-331-2867

### **SECTION 2. HAZARDS IDENTIFICATION**

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

Emergency Overview Caution! Causes eye irritation. Avoid contact with skin, eyes and clothing. Wash

thoroughly with soap and water after handling.

Physical State liquid

**Appearance** white to light beige

Routes of Exposure Ingestion, Eye contact, Skin contact, Inhalation

**Immediate Effects** 

**Eye** Causes eye irritation. Avoid contact with eyes.

**Chronic or Delayed** 

Long-Term

This product or its components may have target organ effects.

**Potential Environmental** 

Effect

Toxic to fish. Highly toxic to bees. Toxic to wildlife. Highly toxic to aquatic

invertebrates.

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

Hazardous Component NameCAS-No.Average % by WeightImidacloprid138261-41-30.235

Glycerine 56-81-5

## **SECTION 4. FIRST AID MEASURES**



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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** 

**Treatment** Treat symptomatically. There is no specific antidote.

#### **SECTION 5. FIRE FIGHTING MEASURES**

Suitable Extinguishing

Media

General

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

Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to

enter drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus

and full protective clothing.

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

binder). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing

environmental regulations.



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Additional Advice Use personal protective equipment. Do not allow to enter soil, waterways or

waste water canal.

## **SECTION 7. HANDLING AND STORAGE**

Handling Procedures Maintain exposure levels below the exposure limit through the use of general

and local exhaust ventilation.

**Storing Procedures** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in

original container and out of the reach of children, preferably in a locked storage

area.

#### **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

General Protection There are no known hazards associated with this product when used according

to the label directions. The following guidelines should be followed.

Avoid inhalation of vapour or mist. Avoid contact with skin and eyes.

Do not allow children or pets to enter the treated area until it has dried.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

### **Exposure Limits**

Imidacloprid Glycerine	138261-41-3 56-81-5	OES BCS* ACGIH OSHA Z1 OSHA Z1 OSHA Z1A OSHA Z1A TX ESL	TWA PEL PEL TWA TWA ST ESL	0.7 mg/m3 10 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3
		TX ESL	AN ESL	5 ug/m3

<sup>\*</sup>OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** white to light beige

Physical State liquid



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**pH** 5.5 - 7.0 (100 %)

**Density** 1.01 g/cm<sup>3</sup>

Viscosity 300 - 600 cps

#### **SECTION 10. STABILITY AND REACTIVITY**

**Chemical Stability** Stable under normal conditions.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity data have been bridged from a similar formulation containing a higher percentage of the active ingredient, imidacloprid. The non-acute information pertains to the technical-grade active ingredient.

Acute Oral Toxicity rat: LD50: 4,143 mg/kg

Acute Dermal Toxicity rat: LD50: > 2,000 mg/kg

Acute Inhalation Toxicity rat: LC50: > 5.33 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

rat: LC50: > 20 mg/l Exposure time: 1 h

Determined in the form of liquid aerosol.

Extrapolated from the 4 hr LC50.

**Skin Irritation** rabbit: No skin irritation.

**Eye Irritation** rabbit: Mild eye irritation.

**Sensitization** guinea pig: Non-sensitizing.

Chronic Toxicity Imidacloprid caused thyroid and/or liver effects in chronic dietary studies in rats

and dogs.

#### **Assessment Carcinogenicity**

Imidacloprid was not carcinogenic in studies in rats and mice.

**ACGIH** 

None.

NTP

None.

**IARC** 

None.

**OSHA** 



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None.

Reproductive toxicity REPRODUCTION: Imidacloprid was not a reproductive toxicant in a multi-

generation study in rats.

DEVELOPMENTAL TOXICITY: Imidacloprid is not considered a primary developmental toxicant in rats and rabbits. Developmental effects were

observed at doses that caused maternal toxicity.

**Neurotoxicity** Imidacloprid showed slight behavioral and activity changes only at the highest

dose tested in neurotoxicity studies in rats. There were no correlating

morphological changes observed in the neural tissues.

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**

Environmental Precautions

Do not allow to get into surface water, drains and ground water. Do not apply when weather conditions favor runoff or drift. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. 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**

General Disposal Guidance

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label

instructions and applicable local guidelines. Never place unused product down

any indoor or outdoor drain.

Container Disposal Do not re-use empty containers. Place empty container in trash. Follow advice

on product label and/or leaflet.

## **SECTION 14. TRANSPORT INFORMATION**

TRANSPORTATION CLASSIFICATION:

Not regulated for any mode of transport in the US

FREIGHT CLASSIFICATION:

Insecticides or Fungicides, N.O.I.; other than poison



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#### **SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 72155-92

**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 IL, MN, RI

**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.

#### **SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: New Material Safety Data Sheet.



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