

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

# SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

# Product NameBAYER ADVANCED FRUIT, CITRUS & VEGETABLE INSECT CONTROL<br/>CONCENTRATEMSDS Number102000021168EPA 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 Name	CAS-No.	Average % by Weight
Imidacloprid	138261-41-3	0.235
Glycerine	56-81-5	

# **SECTION 4. FIRST AID MEASURES**



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General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Еуе	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	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 ProceduresMaintain exposure levels below the exposure limit through the use of general<br/>and local exhaust ventilation.Storing ProceduresKeep containers tightly closed in a dry, cool and well-ventilated place. Store in<br/>original container and out of the reach of children, preferably in a locked storage<br/>area.

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

General ProtectionThere are no known hazards associated with this product when used according<br/>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 TX ESL	TWA PEL PEL TWA TWA ST ESL AN ESL	0.7 mg/m3 10 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3 50 ug/m3 5 ug/m3
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\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

liquid

Appearance

white to light beige

Physical State



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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 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 **INSECT CONTROL CONCENTRATE** 



# Material Safety Data Sheet BAYER ADVANCED FRUIT, CITRUS & VEGETABLE

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SECTION 15. REGULATORY INFORMA	TION	
<b>EPA Registration No.</b> 72155-92		
IS Endered Pagulations		
JS Federal Regulations TSCA list		
Glycerine	56-81-5	
	(TSCA) Section 12(b) Exp	ort Notification (40 CFR 707, Subpt D)
None. SARA Title III - Section 302 - Notific	ation and Information	
None.	cation and information	
SARA Title III - Section 313 - Toxic	Chemical Release Report	ing
None.	·	-
JS States Regulatory Reporting		
CA Prop65 This product does not contain any s	substances known to the St	ate of California to cause cancer
This product does not contain any s harm.	substances known to the St	ate of California to cause reproductive
US State Right-To-Know Ingredien	ts	
Glycerine	56-81-5	IL, MN, RI
Canadian Regulations Canadian Domestic Substance Lis	t	
Glycerine	56-81-5	
,		
Environmental		
CERCLA None.		
Clean Water Section 307 Priority P	ollutants	
None.		
	Contaminant Levels	
Safe Drinking Water Act Maximum None.		

# **SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):<br/>Health - 1Health - 1Flammability - 1Reactivity - 0Others - none0 = 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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