



## Safety Data Sheet

### BAYER ADVANCED NATRIA INSECT, DISEASE AND MITE CONTROL READY-TO-SPRAY

SDS Number: 102000027064

SDS Version 1.0

Revision Date: 06/22/2012

Print Date: 06/25/2012

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

<b>Product name</b>	BAYER ADVANCED NATRIA INSECT, DISEASE AND MITE CONTROL READY-TO-SPRAY
<b>SDS Number</b>	102000027064
<b>Product code (UVP)</b>	80868464
<b>Product Use</b>	Fungicide, Insecticide

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! Moderate eye irritation. Avoid contact with eyes. Avoid contact with skin and clothing.

**Physical State** opaque suspension

**Odor** sulphurous slight alcoholic

**Appearance** yellow

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

#### **Immediate Effects**

**Eye** Avoid contact with eyes. Moderate eye irritation may occur.

**Skin** Avoid contact with skin and clothing.

**Ingestion** Do not take internally.

**Inhalation** Avoid inhalation of vapour or mist.

**Potential Environmental Effect** Toxic to aquatic invertebrates.



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

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Sulfur	7704-34-9	10.00
Pyrethrins including cinerins	8003-34-7	0.25
1,2-Propanediol	57-55-6	2.00
Propan-2-ol	67-63-0	5.00

#### SECTION 4. FIRST AID MEASURES

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</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.
<b>Skin</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>Ingestion</b>	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.
<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>Notes to physician Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

#### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash point</b>	52 °C / 126 °F
<b>Autoignition temperature</b>	no data available
<b>Lower Flammability Limit</b>	no data available
<b>Upper Flammability Limit</b>	no data available



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<b>Explosiveness</b>	no data available
<b>Fire and Explosion Hazards</b>	Dangerous gases are evolved in the event of a fire. Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide (CO) Hydrogen sulphide (H <sub>2</sub> S) Sulphur dioxide (SO <sub>2</sub> )
<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Fire Fighting Instructions</b>	Evacuate personnel to safe areas. Keep out of smoke. Fight fire from upwind position. Avoid contact with spilled product or contaminated surfaces. Cool closed containers 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

<b>Personal precautions</b>	Isolate hazard area. Keep unauthorized people away. Remove all sources of ignition.  Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.
<b>Methods for cleaning up</b>	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. Decontaminate tools and equipment following cleanup.
<b>Additional advice</b>	Do not allow to enter soil, waterways or waste water canal.

## SECTION 7. HANDLING AND STORAGE

<b>Handling procedures</b>	Handle and open container in a manner as to prevent spillage. Avoid dust formation. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.  Keep away from heat and sources of ignition.
<b>Storing Procedures</b>	Store at room temperature. Protect from freezing.  Keep away from combustible material.



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#### Work/Hygienic Procedures

Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Smoking, eating and drinking should be prohibited in the application area.

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.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### General Protection

Follow all label instructions. Train employees in safe use of the product.

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

Chemical resistant goggles must be worn.

#### 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

1,2-Propanediol	57-55-6	WEEL	TWA	10 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	ST ESL	1000 ug/m3
		TX ESL	AN ESL	5 ug/m3
		TX ESL	AN ESL	100 ug/m3
		TX ESL	ST ESL	500 ppb
		TX ESL	AN ESL	50 ppb
Propan-2-ol	67-63-0	ACGIH	TWA	200 ppm
		ACGIH	STEL	400 ppm
		NIOSH	REL	400 ppm
		NIOSH	STEL	500 ppm
		OSHA Z1	PEL	400 ppm
		OSHA Z1A	TWA	400 ppm
		OSHA Z1A	STEL	500 ppm
		US CA OEL	TWA PEL	400 ppm
		US CA OEL	STEL	500 ppm



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TX ESL	ST ESL	7850 ug/m3
TX ESL	AN ESL	785 ug/m3
OES BCS*	TWA	400 ppm
TX ESL	ST ESL	3200 ppb
TX ESL	AN ESL	320 ppb
TN OEL	TWA	400 ppm
TN OEL	STEL	500 ppm
		10 mg/m3
		50 mg/m3

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	yellow
<b>Physical State</b>	opaque suspension
<b>Odor</b>	sulphurous slight alcoholic
<b>pH</b>	ca. 4.25
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	ca. 1.03 g/cm <sup>3</sup>
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	miscible in all proportions
<b>Solubility in other solvents</b>	no data available
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available



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Viscosity 450 mPa.s

#### SECTION 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Heat, flames and sparks. freezing
<b>Incompatibility</b>	no data available
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of: Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Hydrogen sulfide Sulphur oxides
<b>Hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Chemical Stability</b>	Stable under recommended storage conditions.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on the formulated product.

**Acute oral toxicity** LD50: > 5,000 mg/kg

**Acute dermal toxicity** LD50: > 5,000 mg/kg

**ACGIH**

Pyrethrins including cinerins	8003-34-7	Group A4
Propan-2-ol	67-63-0	Group A4

**NTP**

None.

**IARC**

None.

**OSHA**

None.

#### 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. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.



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#### SECTION 13. DISPOSAL CONSIDERATIONS

<b>General Disposal Guidance</b>	Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations. Never place unused product down any indoor or outdoor drain. Follow advice on product label and/or leaflet.
<b>Container Disposal</b>	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. 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

##### 49CFR

NA-Number	<b>1993</b>
Packaging group	III
Description of the goods	COMBUSTIBLE LIQUID, N.O.S. (ISOPROPANOL)

##### IMDG

UN number	<b>1993</b>
Class	3
Packaging group	III
Marine pollutant	NO
Description of the goods	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL SOLUTION)

##### IATA

UN number	<b>1993</b>
Class	3
Packaging group	III
Environm. Hazardous Mark	NO
Description of the goods	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL 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.



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#### SECTION 15. REGULATORY INFORMATION

##### US Federal Regulations

###### TSCA list

Sulfur	7704-34-9
1,2-Propanediol	57-55-6
Propan-2-ol	67-63-0

###### 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

Sulfur	7704-34-9	CA, CT, RI
Pyrethrins including cinerins	8003-34-7	CA, CT, IL, MN, PA, RI
1,2-Propanediol	57-55-6	MN, RI
Propan-2-ol	67-63-0	CA, CT, MN, RI

##### Canadian Regulations

###### Canadian Domestic Substance List

Sulfur	7704-34-9
Pyrethrins including cinerins	8003-34-7
1,2-Propanediol	57-55-6
Propan-2-ol	67-63-0

##### Environmental

###### CERCLA

Pyrethrins including cinerins	8003-34-7	1 lbs
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###### Clean Water Section 307 Priority Pollutants

None.

###### Safe Drinking Water Act Maximum Contaminant Levels

None.

##### International Regulations

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

Sulfur	7704-34-9
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1,2-Propanediol	57-55-6
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#### **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: New Safety Data Sheet.

Revision Date: 06/22/2012

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