



Material Safety Data Sheet

BAYER ADVANCED NATRIA INSECT DISEASE & MITE CONTROL READY-TO-USE

MSDS Number: 102000022779

MSDS Version 1.0

Revision Date: 06/04/2009

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BAYER ADVANCED NATRIA INSECT DISEASE & MITE CONTROL READY-TO-USE
MSDS Number 102000022779
EPA Registration No. 67702-15-72155

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. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Pyrethrins including cinerins	8003-34-7	0.01
Sulfur	7704-34-9	0.20
Propan-2-ol	67-63-0	5.00

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Causes skin irritation. Causes eye irritation. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour or mist. Wash thoroughly with soap and water after handling.

Physical State liquid suspension
Odor slight alcoholic
Appearance yellow
Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion

SECTION 4. FIRST AID MEASURES

General When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.



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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

Flash point	54 °C / 129 °F
Suitable Extinguishing Media	Water, Carbon dioxide (CO2), Foam
Fire Fighting Instructions	<p>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.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>

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. Material can create slippery conditions. Do not allow to enter soil, waterways or waste water canal.

SECTION 7. HANDLING AND STORAGE

Handling Procedures Ensure adequate ventilation. Handle and open container in a manner as to prevent spillage.

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

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.

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

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

Eye/Face Protection Tightly fitting safety goggles

Hand protection Chemical resistant nitrile rubber gloves

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

Exposure Limits

Pyrethrins including cinerins	8003-34-7	ACGIH	TWA	5 mg/m3
		NIOSH	REL	5 mg/m3
		OSHA Z1	PEL	5 mg/m3
		OSHA Z1A	TWA	5 mg/m3
		US CA OEL	TWA PEL	5 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
Sulfur	7704-34-9	OES BCS*		5 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
Propan-2-ol	67-63-0	ACGIH	TWA	200 ppm
		ACGIH	STEL	400 ppm
		NIOSH	REL	400 ppm
		NIOSH	STEL	500 ppm



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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
TX ESL	ST ESL	3,200 ppm
TX ESL	AN ESL	320 ppm

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	yellow
Physical State	liquid suspension
Odor	slight alcoholic
pH	4.8 - 5.2 (100 %)
Density	approx. 0.99 g/cm ³ at 25 °C
Water solubility	miscible in all proportions
Viscosity	200 - 500 mPa.s

SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid	Elevated temperatures
Hazardous Decomposition Products	Carbon dioxide (CO ₂) Carbon monoxide Sulphur oxides hydrogen sulfide
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50: > 5,000 mg/kg
Acute Dermal Toxicity	LD50: > 5,000 mg/kg



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Assessment Carcinogenicity

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 contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

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 Consult state and local regulations regarding the proper disposal of container. Follow advice on product label and/or leaflet.

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:
Not regulated for any mode of transportation

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

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 67702-15-72155

US Federal Regulations

TSCA list

Sulfur	7704-34-9
Propan-2-ol	67-63-0



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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

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

Canadian Regulations

Canadian Domestic Substance List

Pyrethrins including cinerins	8003-34-7
Sulfur	7704-34-9
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.

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 2 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.

Revision Date: 06/04/2009

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