



## Safety Data Sheet

### BAYER ADVNACED™ NATRIA™ DISEASE CONTROL READY-TO-USE

SDS Number: 102000022935

SDS Version 1.0

Revision Date: 12/06/2013

Print Date: 12/06/2013

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

<b>Product name</b>	BAYER ADVNACED™ NATRIA™ DISEASE CONTROL READY-TO-USE
<b>SDS Number</b>	102000022935
<b>Product code (UVP)</b>	79631286
<b>PCP Registration No.</b>	28629
<b>Product Use</b>	Fungicide

Bayer CropScience Inc  
#200, 160 Quarry Park Blvd, SE  
Calgary, Alberta T2C 3G3  
Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
For Product Information call: 1-888-283-6847

#### SECTION 2. HAZARDS IDENTIFICATION

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

**Emergency Overview** Caution! May cause mild irritation to eyes. May cause mild irritation to the skin. May cause irritation of respiratory tract. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.

<b>Physical State</b>	liquid dispersion
<b>Odor</b>	sweet earthy
<b>Appearance</b>	brown
<b>Exposure routes</b>	Eye contact, Skin contact, Inhalation
<b>Immediate Effects</b>	
<b>Eye</b>	May cause mild irritation to eyes.
<b>Skin</b>	May cause mild irritation to the skin.
<b>Inhalation</b>	Mists may cause respiratory tract irritation.



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

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Bacillus subtilis, strain QST 713		0.074

#### 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>	no data available
<b>Autoignition temperature</b>	no data available
<b>Lower Flammability Limit</b>	no data available
<b>Upper Flammability Limit</b>	no data available
<b>Explosiveness</b>	no data available



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<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Fire Fighting Instructions</b>	Use appropriate extinguishing media for material that is supplying fuel.  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.  Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
<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.
<b>Additional advice</b>	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

## SECTION 7. HANDLING AND STORAGE

<b>Handling procedures</b>	Ensure adequate ventilation. Handle and open container in a manner as to prevent spillage.
<b>Storing Procedures</b>	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.  Protect from freezing. Keep away from direct sunlight.
<b>Work/Hygienic Procedures</b>	Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General Protection</b>	There are no known hazards associated with this product when used according
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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.

<b>Eye/Face Protection</b>	Safety glasses with side-shields
<b>Hand protection</b>	Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.
<b>Body Protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>Respiratory protection</b>	Respiratory protection is not required under anticipated circumstances of exposure. 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	brown
<b>Physical State</b>	liquid dispersion
<b>Odor</b>	sweet earthy
<b>pH</b>	4.8 - 6.0
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	1.03 g/cm <sup>3</sup>
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	>= 100 °C / 212 °F
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	dispersible



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**Minimum Ignition Energy** no data available

**Partition coefficient: n-octanol/water** no data available

**Viscosity** <= 20 mPa.s

#### SECTION 10. STABILITY AND REACTIVITY

**Conditions to avoid** freezing  
Extremes of temperature and direct sunlight.

**Incompatibility** no data available

**Hazardous Decomposition Products** no data available

**Hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.

**Chemical Stability** Stable under normal conditions.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity studies have not been performed on this formulation. Acute data provided is from a similar formulation containing a higher percentage of the active ingredient.

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

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

**Acute inhalation toxicity** rat: LC50: 1.4 mg/l  
Determined in the form of liquid aerosol.  
Highest attainable concentration.  
No deaths

**Skin irritation** rabbit: No skin irritation

**Eye irritation** rabbit: No eye irritation

**Chronic toxicity** Bacillus subtilis did not cause specific target organ toxicity in experimental animal studies.

#### Assessment Carcinogenicity

Bacillus subtilis: Test not required for microorganisms.

#### ACGIH



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None.  
**NTP**  
None.  
**IARC**  
None.  
**OSHA**  
None.

**Reproductive toxicity** Bacillus subtilis: Test not required for microorganisms.  
**Developmental Toxicity** Bacillus subtilis: Test not required for microorganisms.  
**Mutagenicity** Bacillus subtilis: Test not required for microorganisms.

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to fish** Rainbow trout (*Oncorhynchus mykiss*)  
LC50: 162 mg/l  
Exposure time: 30 d  
The value mentioned relates to the active ingredient.

**Toxicity to aquatic plants** *Scenedesmus subspicatus*  
NOEC: >= 100 mg/l  
The value mentioned relates to the active ingredient.

*Scenedesmus subspicatus*  
LOEC: > 100 mg/l  
The value mentioned relates to the active ingredient.

**Acute Toxicity to Aquatic Invertebrates** Water flea (*Daphnia magna*)  
LC50: 108 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient.

**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.

**Ecological Information** No other effects to be mentioned.



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#### SECTION 13. DISPOSAL CONSIDERATIONS

<b>General Disposal Guidance</b>	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.
<b>Container Disposal</b>	Consult state and local regulations regarding the proper disposal of container. Follow advice on product label and/or leaflet.

#### SECTION 14. TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

#### SECTION 15. REGULATORY INFORMATION

<b>PCP Registration No.</b>	28629
<b>US Federal Regulations</b>	
<b>TSCA list</b>	None.
<b>US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)</b>	None.
<b>SARA Title III - Section 302 - Notification and Information</b>	None.
<b>SARA Title III - Section 313 - Toxic Chemical Release Reporting</b>	None.
<b>US States Regulatory Reporting</b>	
<b>CA Prop65</b>	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.
<b>US State Right-To-Know Ingredients</b>	None.
<b>Canadian Regulations</b>	
<b>Canadian Domestic Substance List</b>	None.
<b>Environmental</b>	
<b>CERCLA</b>	None.
<b>Clean Water Section 307 Priority Pollutants</b>	



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None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

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**SECTION 16. OTHER INFORMATION**

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NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Instability - 0      Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 0      Flammability - 1      Physical Hazard - 0      PPE -

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

Reason for Revision: New Safety Data Sheet.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

Revision Date: 12/06/2013

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