



Material Safety Data Sheet

BAYER ADVANCED ALL-IN-ONE LAWN WEED & CRABGRASS KILLER READY-TO-SPRAY

MSDS Number: 102000015602

MSDS Version 1.0

Revision Date: 06/30/2006

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BAYER ADVANCED ALL-IN-ONE LAWN WEED & CRABGRASS KILLER
 READY-TO-SPRAY
MSDS Number 102000015602
EPA Registration No. 2217-894-72155

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>
2,4-D, dimethylamine salt	2008-39-1	4.85
Quinclorac	84087-01-4	1.61
Dicamba, dimethylamine salt	2300-66-5	0.45

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Harmful if swallowed. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.

Physical State opaque liquid

Odor mild sweet

Appearance brown to black

Routes of Exposure Skin contact, Inhalation, Ingestion

Immediate Effects

Eye Moderate eye irritation. Do not get in eyes.

Skin Moderate skin irritation. Harmful if absorbed through skin. Avoid contact with skin and clothing.



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Ingestion	Harmful if swallowed. Do not take internally.
Inhalation	Irritation of mucous membranes. Mists may cause respiratory tract irritation, coughing, a burning sensation. Harmful if inhaled. Avoid breathing spray mist.
Chronic or Delayed Long-Term	This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic).
Medical Conditions Aggravated by Exposure	Skin contact may aggravate existing skin disease. Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

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.
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	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. 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 Signs and Symptoms	<p>Inhalation may provoke the following symptoms: burning sensation discomfort in the chest cough dizziness</p> <p>Ingestion may provoke the following symptoms: vomiting discomfort in the chest abdominal pain diarrhoea</p>
Treatment	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.



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SECTION 5. FIRE FIGHTING MEASURES

Flash Point	54.5 °C / 130.1 °F Test type: closed cup
Fire and Explosion Hazards	In case of fire the evolution of dangerous gases is possible.
Suitable Extinguishing Media	foam, carbon dioxide (CO2), dry chemical, water
Fire Fighting Instructions	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Inform authorities at once if material enters sewers or watercourses. Equipment or materials involved in pesticide fires may become contaminated. 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	Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Additional Advice	Use personal protective equipment. Do not allow product to enter streams, sewers or other waterways.

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Handle and open container in a manner as to prevent spillage.
Storing Procedures	Do not contaminate water, food, or feed by storage or disposal. Store in original container and out of the reach of children, preferably in a locked storage area. Do not freeze.
Work/Hygienic Procedures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.



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Take off contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. As soon as practical, wash thoroughly and change into 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.
Engineering Controls	Ensure adequate ventilation. Use with local exhaust ventilation.
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.
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	brown to black
Physical State	opaque liquid
Odor	mild sweet
pH	7.5 - 8.5 (100 %)
Vapor Pressure	2.266 kPa / 17 mm Hg at 20 °C
Density	ca. 1.02 g/cm ³ at 20 °C
Boiling Point	100 °C / 212 °F
Melting / Freezing Point	< 1.7 °C / 35.1 °F



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SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Incompatibility	acids
Hazardous Decomposition Products	In case of fire hazardous decomposition products may be produced such as: hydrogen chloride (HCl) nitrogen oxides (NOx) Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Eye Irritation	Mild eye irritation.
Assessment Carcinogenicity	
ACGIH	
2,4-D, dimethylamine salt	2008-39-1 Group A4
NTP	
None.	
IARC	
None.	
OSHA	
None.	

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions	Toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and non-target plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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.
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SECTION 13. DISPOSAL CONSIDERATIONS

- General Disposal Guidance** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
- Container Disposal** 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. If burned, stay out of smoke.
- RCRA Classification:** The RCRA Classifications may be on the individual component(s) and not necessarily on the product as a whole.
- 2008-39-1 2,4-D, dimethylamine salt
US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): U240
- 2008-39-1 2,4-D, dimethylamine salt
US. EPA Resource Conservation and Recovery Act (RCRA) U List of Hazardous Wastes (40 CFR 261.33(f) and 40 CFR 302 [CERCLA]): U240

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:
Not regulated for Domestic Surface Shipment

FREIGHT CLASSIFICATION:
Compounds, Tree or WeedKilling, N.O.I., other than poison, Having a density of greater than 20 LBS. per cubic foot

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 2217-894-72155

US Federal Regulations

TSCA list

None.

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



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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

2,4-D, dimethylamine salt	2008-39-1	CT
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Canadian Regulations

Canadian Domestic Substance List

Quinclorac	84087-01-4
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Environmental

CERCLA

2,4-D, dimethylamine salt	2008-39-1	100 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)

2,4-D, dimethylamine salt	2008-39-1
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SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 2 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.

Revision Date: 06/30/2006

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