



Material Safety Data Sheet

BAYER ADVANCED SOUTHERN WEED KILLER FOR LAWNS READY-TO-SPRAY

MSDS Number: 102000012501
 MSDS Version 1.0
 Revision Date: 05/16/2005

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BAYER ADVANCED SOUTHERN WEED KILLER FOR LAWNS READY-TO-SPRAY
MSDS Number 102000012501
EPA Registration No. 72155-4
Product Use For control of over 200 types of broadleaf weeds in St. Augustine and other Southern lawns.

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	7.59
Mecoprop-P-dimethylamine salt	66423-09-4	1.83
Dicamba, dimethylamine salt	2300-66-5	0.84

SECTION 3. HAZARDS IDENTIFICATION

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

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

Physical State liquid, clear

Appearance brownish

Routes of Exposure Ingestion, Inhalation, Eye contact, Skin contact

Immediate Effects

Eye Do not get in eyes. Moderate eye irritation

Skin May cause skin irritation. Avoid contact with skin and clothing.



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Ingestion	Harmful if swallowed. Do not take internally. May cause irritation.
Inhalation	Mists may cause respiratory tract irritation, coughing, a burning sensation. Avoid breathing spray mist.

SECTION 4. FIRST AID MEASURES

General	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 poison control center or doctor for treatment advice.
Skin	Take off all contaminated clothing immediately. Rinse immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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.
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 poison control center or doctor for further treatment advice.
Notes to Physician Treatment	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards	In case of fire the evolution of dangerous gases is possible.
Suitable Extinguishing Media	foam, dry chemical, water spray, carbon dioxide (CO2)
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. Equipment or materials involved in pesticide fires may become contaminated. Wear self-contained breathing apparatus and protective suit.



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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, 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 material to enter streams, sewers, or other waterways or contact vegetation.

SECTION 7. HANDLING AND STORAGE

- Handling Procedures** Handle and open container in a manner as to prevent spillage.
- Storing Procedures** Store in original container and out of the reach of children, preferably in a locked storage area. Store in cool place. 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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- General Protection** Educate and train employees in safe use of the product. Follow all label instructions.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Engineering Controls** Ensure adequate ventilation.
- Eye/Face Protection** Chemical resistant goggles must be worn.
- Hand Protection** chemical resistant 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.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	brownish
Physical State	liquid, clear
pH	7.5 - 8.5
Density	ca. 1.04 g/cm ³ at 20 °C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Incompatibility	acids
Hazardous Decomposition Products	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide carbon dioxide (CO ₂) nitrogen oxides (NO _x) hydrogen chloride (HCl)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity studies have not been performed on this product as formulated. The data provided has been conservatively extrapolated from data on the individual technical-grade active ingredients.

Acute Oral Toxicity	rat: LD50: > 2,000 mg/kg
Acute Dermal Toxicity	rat: LD50: > 2,000 mg/kg

Assessment Carcinogenicity

ACGIH		
2,4-D, dimethylamine salt	2008-39-1	Group A4
NTP		
None.		
IARC		
None.		
OSHA		
None.		

SECTION 12. ECOLOGICAL INFORMATION



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Environmental Precautions This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Drift or runoff may adversely affect aquatic invertebrates and non-target plants. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Do not re-use empty containers. Place empty container in trash. Never place unused product down any indoor or outdoor drain. Refer to the product label for other disposal instructions.

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:
Material is not regulated for transportation

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

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 72155-4

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

None.

US States Regulatory Reporting

CA Prop65

