



Material Safety Data Sheet

BAYER ADVANCED ALL-IN-ONE WEED KILLER FOR LAWNS CONCENTRATE

MSDS Number: 102000012304

MSDS Version 2.1

Revision Date: 12/05/2005

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BAYER ADVANCED ALL-IN-ONE WEED KILLER FOR LAWNS CONCENTRATE
MSDS Number 102000012304
EPA Registration No. 72155-5
Product Use For use to kill weeds such as Broadleaf Weeds: Dandelion, Chickweed and Clovers and Grassy Weeds: Crabgrass, Nutgrass/Nutsedge.

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>
Sodium methylarsonate	2163-80-6	9.81
2,4-D, dimethylamine salt	2008-39-1	3.18
Mecoprop-P-dimethylamine salt	66423-09-4	1.60
Dicamba, dimethylamine salt	2300-66-5	0.79

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Hazard to humans and domestic animals. Causes eye irritation. Harmful if swallowed. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Physical State liquid suspension
Odor slight amine odour
Appearance white to beige
Routes of Exposure Eye contact, Ingestion, Inhalation, Skin contact, Skin Absorption
Immediate Effects
Eye May cause eye irritation.
Skin Skin sensitizer. May cause irritation, redness, swelling on prolonged contact.



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Ingestion Harmful if swallowed. May cause nausea, vomiting, abdominal pain.

Inhalation Can cause upper respiratory tract irritation. May cause irritation of the mucous membranes.

Medical Conditions Aggravated by Exposure Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

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. 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 poison control center or doctor for further treatment advice.

Notes to Physician Signs and Symptoms General signs of poisoning such as nausea, headache, vomiting, diarrhoea and convulsions; in serious cases unconsciousness, heart und circulation failure.

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

Flash Point > 93.4 °C / > 200.1 °F

Suitable Extinguishing Media carbon dioxide (CO2), dry chemical, foam, water



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Fire Fighting Instructions Keep unnecessary people away, isolate hazard area and deny entry. Dike area to prevent runoff and contamination of water sources. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

Methods for Cleaning Up Take all necessary action to prevent and to remedy the effects of the spill. 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 Avoid breathing vapors and avoid skin contact. Use personal protective equipment. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

SECTION 7. HANDLING AND STORAGE

Storing Procedures Store in original container and out of the reach of children, preferably in a locked storage area. Keep in a dry, 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.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove clothing immediately if pesticide gets inside. Before removing gloves clean them with soap and water. As soon as practical, wash thoroughly and change into clean clothing. Keep and wash PPE separately from other laundry.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection There are no known hazards associated with this product when used according to the label directions. At the same time, the following guidelines should be used.

Avoid inhalation of vapour or mist. Avoid contact with skin and eyes.



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

Hand Protection Chemical resistant nitrile rubber gloves

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

Exposure Limits

Sodium methylarsonate	2163-80-6	ACGIH	TWA		0.01 mg/m3
		Expressed as		as As	
		NIOSH	Ceil_Time		0.002 mg/m3
		Expressed as		as As	
		OSHA	REF		29 CFR 1910.1018
		OSHA	TWA		0.01 mg/m3
		OSHA	OSHA_ACT		0.005 mg/m3
		OSHA Z1A	TWA		0.01 mg/m3
		Expressed as		as As	
		US CA OEL	TWA PEL		0.01 mg/m3
		US CA OEL	TWA A LV		0.005 mg/m3
		OSHA Z1	PEL		0.5 mg/m3
		Expressed as		as As	
		OSHA Z1A	TWA		0.5 mg/m3
		Expressed as		as As	
		US CA OEL	TWA PEL		0.2 mg/m3
		Expressed as		as As	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to beige
Physical State	liquid suspension
Odor	slight amine odour
pH	7.5 - 8.5
Specific Gravity	1.07 - 1.09 at 20 °C
Boiling Point	100 °C / 212 °F
Melting/Freezing Point	< 1.7 °C / < 35.1 °F
Water Solubility	soluble

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.



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Conditions to Avoid freezing

Incompatibility acids
metals
aluminium
copper
tin Sn
zinc

Hazardous Decomposition Products In case of fire hazardous decomposition products may be produced such as:
Hydrogen chloride gas
organochlorides
nitrogen oxides (NOx)
Carbon monoxide

Monosodium acid methanearsoate (MSMA), in the presence of many metals, can react with nascent hydrogen to form arsine gas.

SECTION 11. TOXICOLOGICAL INFORMATION

Available on request.

Assessment Carcinogenicity

ACGIH

Sodium methylarsonate	2163-80-6	Group A1
2,4-D, dimethylamine salt	2008-39-1	Group A4

NTP

Sodium methylarsonate	2163-80-6
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IARC

Sodium methylarsonate	2163-80-6	Overall evaluation: 1
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OSHA

Sodium methylarsonate	2163-80-6
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SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions Toxic to aquatic invertebrates. Do not apply directly to 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.



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SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Do not re-use empty containers. 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 any applicable state or local guidelines. Never place unused product down any indoor or outdoor drain.

RCRA Classification: The RCRA Classifications may be on the individual component(s) and not necessarily on the product as a whole.

- 2163-80-6 Sodium methylarsonate
US. EPA Resource Conservation and Recovery Act: (RCRA) D List of Characteristic Hazardous Wastes (40 CFR 261.21-24): D004
- 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

DOT CLASSIFICATION:
Not regulated For Domestic Surface 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. 72155-5

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

Sodium methylarsonate 2163-80-6

0.1%

US States Regulatory Reporting



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CA Prop65

This product contains a chemical known to the State of California to cause cancer.

Sodium methylarsonate 2163-80-6

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Sodium methylarsonate 2163-80-6 CA, CT, IL, MI, MN, NJ, PA, RI
2,4-D, dimethylamine salt 2008-39-1 CT

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

Sodium methylarsonate 2163-80-6 1 lbs
2,4-D, dimethylamine salt 2008-39-1 100 lbs

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Sodium methylarsonate 2163-80-6
2,4-D, dimethylamine salt 2008-39-1

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: Update Section 2 active ingredients; other sections as needed.

Revision Date: 12/05/2005

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.