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.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Average % by Weight</th>
</tr>
</thead>
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<tr>
<td>Sodium methylarsonate</td>
<td>2163-80-6</td>
<td>9.81</td>
</tr>
<tr>
<td>2,4-D, dimethylamine salt</td>
<td>2008-39-1</td>
<td>3.18</td>
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<tr>
<td>Mecoprop-P-dimethylamine salt</td>
<td>66423-09-4</td>
<td>1.60</td>
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<tr>
<td>Dicamba, dimethylamine salt</td>
<td>2300-66-5</td>
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</table>

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.
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
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 earh 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.
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**

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<tr>
<th>ACGIH</th>
<th>TWA</th>
<th>0.01 mg/m³</th>
</tr>
</thead>
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<td>Expressed as</td>
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<tr>
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</tr>
<tr>
<td>US CA OEL</td>
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<tr>
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<td>OSHA Z1A</td>
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<td>0.5 mg/m³</td>
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<tr>
<td>Expressed as</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>TWA PEL</td>
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</tr>
</tbody>
</table>

### 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.
Bayer Environmental Science

Material Safety Data Sheet

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

Conditions to Avoid
freezing

Incompatibility
acids
metals
aluminium
copper
tin Sn
zinc

Hazards
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

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

OSHA
Sodium methylarsonate 2163-80-6

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.
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

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

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

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
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.