SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: BAYER ADVANCED 2-in-1 Moss & Algae Killer READY-TO-SPRAY  
Chemical Name:  
Common Name:  
MSDS Number: 2174  
Chemical Family:  
Chemical Formulation:  
EPA Registration No.: 67702-12-72155  
Product Use: Use for lawns, patios, plus roofs and buildings.

Bayer Environmental Science  
95 Chestnut Ridge Road  
Montvale, NJ  07645  
USA

For MEDICAL, TRANSPORTATION or Other EM ERGENCY call 1-800-334-7577  24 hours/day  
For Product Information call 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS No.</th>
<th>Concentration % by Weight Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium laurate</td>
<td>10124-65-9</td>
<td></td>
<td>24.0000</td>
</tr>
</tbody>
</table>

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview: Warning! Hazard to humans and domestic animals. Cause substantial but temporary eye injury. Causes skin irritation. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling.

Physical State: Liquid

Odor: Odorless to mild soap like.

Appearance: Clear

Routes of Exposure: Eye contact, Ingestion, Skin contact

Immediate Effects

Eye: Do not get in eyes. Cause substantial but temporary eye injury. Causes eye
irritation.

**Skin**
Causes skin irritation. Avoid contact with clothing. Avoid contact with skin. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before re-use.

**Ingestion**
May cause irritation. May cause nausea, vomiting, abdominal pain.

**Chronic or Delayed Long-Term**
This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

**Medical Conditions Aggravated by Exposure**
Skin disorders

### 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 for treatment advice.

#### 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 treatment advice.

#### Notes to Physician
Treatment
Treat symptomatically.

### SECTION 5. FIRE FIGHTING MEASURES

**Flash Point**
Not applicable

**Suitable Extinguishing Media**
Carbon dioxide (CO2), 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. Cool closed containers exposed to fire with water spray. Avoid contact with spilled product or contaminated surfaces.

Fight fire from upwind position. Keep out of smoke. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Equipment or materials involved in pesticide fires may become contaminated.
Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

**General and Disposal**
Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the effects of the spill. Dispose in accordance with all local, state/provincial and federal regulations.

**Land Spill or Leaks**
Isolate area and keep unauthorized people away. Avoid contact with skin, eyes and clothing.

Dike area to prevent runoff. Material can create slippery conditions. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Prevent entry into waterways, sewers, basements or confined areas.

Do not allow material to enter streams, sewers, or other waterways or contact vegetation. Contact Bayer for further assistance if necessary.

SECTION 7. HANDLING AND STORAGE

**Handling Procedures**
Use proper protective equipment to minimize personal exposure (see Section 8).

**Storing Procedures**
Store in original container in a secured, dry storage area. Keep out of reach of children and animals.

Keep away from open flames, hot surfaces and sources of ignition. Store at ambient temperature.

**Work/Hygienic Procedures**
Handle in accordance with good industrial hygiene and safety practice. Avoid breathing spray mist. Avoid contact with skin, eyes and clothing.

For additional handling precautions, refer to the Product Label for "User Safety Recommendations", as defined by the EPA Worker Protection Standard (40 CFR part 170).

**Min/Max Storage Temperatures**
Do not transport or store below 32 °C / 90 °F

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls**
Use only with adequate ventilation/personal protection.

**Eye/Face Protection**
Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices.

**Hand Protection**
Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.
Material Safety Data Sheet

BAYER ADVANCED 2-in-1 Moss & Algae Killer READY-TO-SPRAY

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

Respiratory Protection
When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or Industry recommendations.

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. Eye wash facility and safety shower should be available.

Exposure Limits
None Established

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless to mild soap like.</td>
</tr>
<tr>
<td>pH</td>
<td>10</td>
</tr>
<tr>
<td>Density</td>
<td>1.04 g/cm³ at 25 °C</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Completely miscible</td>
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</table>

SECTION 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable under recommended storage conditions.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Exposure to extreme heat.</td>
</tr>
<tr>
<td>Incompatibility</td>
<td>None known.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Carbon dioxide (CO2)</td>
</tr>
<tr>
<td></td>
<td>Carbon monoxide</td>
</tr>
<tr>
<td></td>
<td>Nitrogen oxides (NOx)</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Hazardous polymerisation does not occur.</td>
</tr>
<tr>
<td>(Conditions to Avoid)</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Oral Toxicity</td>
<td>LD50: &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Acute Dermal Toxicity</td>
<td>LD50: &gt; 5,000 mg/kg</td>
</tr>
</tbody>
</table>

Assessment Carcinogenicity
ACGIH
SECTION 12. ECOLOGICAL INFORMATION

Acute and Prolonged Toxicity to Fish
- Fish LC50: No data available

Environmental Precautions
- Do not apply directly to any body of water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
- This product may be hazardous to aquatic invertebrates.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance
- Do not re-use empty containers. If recycling is not practicable, dispose of in compliance with local regulations.
- Never place unused product down any indoor or outdoor drain.

Container Disposal
- If partly filled, call your local solid waste agency for disposal instructions.

RCRA Classification
- Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
- Not regulated for Domestic Surface Transportation

FREIGHT CLASSIFICATION:
- Insecticide or Fungicide, N.O.I.

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 67702-12-72155

US Federal Regulations
- TSCA list
  - Potassium laurate 10124-65-9
- 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
US States Regulatory Reporting

CA Prop 65
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

None

Canadian Regulations

Canadian Domestic Substance List
None

Environmental

CERCLA
None

Clean Water Section 307 Priority Pollutants
None

Safe Drinking Water Act Maximum Contaminant Levels
None

International Regulations

EU Classification
None

European Inventory of Existing Commercial Substances (EINECS)
Potassium laurate 10124-65-9

SECTION 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Others</th>
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</thead>
<tbody>
<tr>
<td>NFPA 2</td>
<td>1</td>
<td>1</td>
<td>None</td>
</tr>
</tbody>
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REASON TO ISSUE: New MSDS.

Approval Date: 08/05/2004

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