Section 1: Identification

Product identifier

Product Name • Lilly Miller Moss Out! Roofs & Walks Concentrate
Synonyms • 100099149; 100503874; EPA Reg. No.: 67702-8-33116; Hard surface herbicide for moss control; UPC #: 0-07624-10315-9; UPC #: 0-70624-10495-8
Product Description • Clear to yellow liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • For homeowner use on hard surfaces to control moss.
Restrictions on use • Avoid contact with eyes and skin. Keep out of reach of children. Use in well ventilated area.

Details of the supplier of the safety data sheet

Manufacturer • Lilly Miller Brands
1000 Parkwood Circle, Suite 700
Atlanta, GA 30339
United States
www.mossout.com

Emergency telephone number

Manufacturer • 1-800-265-0761
Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC
Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Eye Irritation 2A

Label elements

OSHA HCS 2012

WARNING

Hazard statements • Causes serious eye irritation
Precautionary statements
Prevention • Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

**Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Other hazards**

**OSHA HCS 2012**

- This product may be hazardous to aquatic invertebrates.

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**Section 3 - Composition/Information on Ingredients**

**Substances**

- Material does not meet the criteria of a substance.

**Mixtures**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammoniated soap of fatty acids</td>
<td>NDA</td>
<td>22%</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>NDA</td>
<td>78%</td>
</tr>
</tbody>
</table>

---

**Section 4: First-Aid Measures**

**Description of first aid measures**

**Inhalation**

- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison control center or doctor. Get medical attention if symptoms occur.

**Skin**

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

**Eye**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed**

- Causes serious eye irritation. Refer to Section 11 - Toxicological Information.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**

- Treat symptomatically and supportively.

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**Section 5: Fire-Fighting Measures**

**Extinguishing media**

**Suitable Extinguishing Media**

- LARGE FIRE: Water spray, fog or regular foam.
- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

**Unsuitable Extinguishing Media**

- Avoid heavy hose streams.
Firefighting Procedures

- Do not allow fire fighting water to escape into waterways or sewers.
- Stay upwind.
- Ventilate closed spaces before entering.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- None known.

Hazardous Combustion Products

- Decomposes upon heating to produce toxic gases including carbon oxides, nitrogen oxides, ammonia.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use appropriate Personal Protective Equipment (PPE). Do not walk through spilled material.

Emergency Procedures

- No data available.

Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
- SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Use only with adequate ventilation. Avoid contact with skin or eyes. Wash hands after use.

Conditions for safe storage, including any incompatibilities

Storage

- Store in ambient temperature, well-ventilated place away from excessive heat. Keep container closed when not in use. Keep away from incompatible materials.

Incompatible Materials or Ignition Sources

- None known.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

- No data available.

Exposure controls

Engineering Measures/Controls

- Not required.

Personal Protective Equipment

Pictograms

- 

Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if nuisance dust exposure limits are exceeded or
symptoms are experienced. In case of insufficient ventilation, wear suitable respiratory equipment.

**Eye/Face**
- Wear safety goggles.

**Hands**
- Wear protective gloves.

**Skin/Body**
- Where extensive dermal exposure may be expected, either a chemical suit or a chemical apron will be needed.

**General Industrial Hygiene Considerations**
- Wash thoroughly with soap and water after handling. Handle in accordance with good industrial hygiene and safety practice. Safety shower and eye wash should be available close to work areas.

**Environmental Exposure Controls**
- Follow best practice for site management and disposal of waste. Avoid release to the environment.

### Section 9 - Physical and Chemical Properties

**Information on Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Liquid</td>
<td>Clear to yellow liquid.</td>
<td>Soap and ammonia.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color</th>
<th>Clear to Yellow.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Properties</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>No data available</td>
<td>Melting Point</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td>pH</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>No data available</td>
<td>Density</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>1.00 +/- 0.03 g/mL</td>
<td>Water Solubility</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1.2 +/- 0.4 cPs (Brookfield LVF)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Volatility</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>LEL</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability (solid, gas)</th>
<th>Not Flammable.</th>
</tr>
</thead>
</table>

| Environmental | Octanol/Water Partition coefficient | No data available |
|---------------|------------------------------------|

### Section 10: Stability and Reactivity

**Reactivity**
- No dangerous reaction known under conditions of normal use.

**Chemical stability**
- Stable under normal temperatures and pressures.

**Possibility of hazardous reactions**
- Hazardous polymerization will not occur.

**Conditions to avoid**
- Excessive heat.
Incompatible materials

- None known.

Hazardous decomposition products

- Thermal decomposition produces oxides of nitrogen, oxides of carbon and ammonia.

### Section 11 - Toxicological Information

#### Information on toxicological effects

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>OSHA HCS 2012 • Not classified - data lacking</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>OSHA HCS 2012 • Eye Irritation 2A</td>
</tr>
</tbody>
</table>

#### Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion.

#### Potential Health Effects

**Inhalation**

- **Acute (Immediate)**: Can be expected to cause irritation if fine droplets are inhaled.
- **Chronic (Delayed)**: No data available.

**Skin**

- **Acute (Immediate)**: May cause skin irritation.
- **Chronic (Delayed)**: No data available.

**Eye**

- **Acute (Immediate)**: Causes serious eye irritation.
- **Chronic (Delayed)**: No data available.

**Ingestion**

- **Acute (Immediate)**: May cause irritation.
- **Chronic (Delayed)**: No data available.

---

### Section 12 - Ecological Information

#### Toxicity
Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- Material data lacking.

Other adverse effects

- No studies have been found.

Potential Environmental Effects

- This product may be hazardous to aquatic invertebrates.

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Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not allow into any sewer on the ground, or into any body of water.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. If empty: Nonrefillable container. Do not reuse or refill container. Offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

---

Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>N/A</td>
<td>Not Regulated</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>N/A</td>
<td>Not Regulated</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>N/A</td>
<td>Not Regulated</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Special precautions for user

- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

Other information

- IMO/IMDG: No data available
- IATA/ICAO: No data available

Key to abbreviations

N/A = Not applicable.

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Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- No data available
FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING Causes substantial but temporary eye irritation. Causes skin irritation. Harmful if inhaled. Avoid breathing vapor or spray mist. Do not get in eyes or on clothing. Wear eye protection (goggles, face shield or safety glasses), long sleeved shirt, long pants, socks shoes and rubber gloves. After this product is diluted in accordance with label directions, eye protection, gloves and long sleeves are not required. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid

IF IN EYES: 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.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person take a sip of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give ANY liquid to the person. Do not give contaminated clothing and wash before reuse.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth if possible. Call poison control center or doctor for treatment advice.

Environmental Hazards

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street back onto the treated area of the lawn or garden will help to prevent runoff to water bodies or drainage systems.

Section 16 - Other Information

Last Revision Date

17/February/2015

Preparation Date

17/February/2015

Disclaimer/Statement of Liability

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

Key to abbreviations

NDA = No Data Available