

Lilly Miller Moss Out! For Lawns Concentrate Safety Data Sheet Date of issue: 02/26/2016 Revision date: 02/24/2021 Supersedes: 11/13/2019 Ver

Version: 1.2

| SECTION 1: Identification | |
|---|--|
| 1.1. Identification | |
| Product form | : Mixture |
| Trade name | : Lilly Miller Moss Out! For Lawns Concentrate |
| Synonyms | : EPA Reg. No.: 802-509; 100099156; UPC #: 0-700624-00765-5 |
| 1.2. Recommended use and restrictions | on use |
| Recommended use | : Mossicide. |
| Restrictions on use | : Avoid contact with eyes, skin or clothing. Keep out of reach of children and domestic animals. |
| | Avoid inhalation of vapors or fumes. Do NOT take internally. |
| 1.3. Supplier | |
| Lilly Miller Brands | |
| 1000 Parkwood Circle, Suite 700 | |
| Atlanta, GA 30339 - United States | |
| | |
| www.mossout.com | |
| 1.4. Emergency telephone number | |
| | |
| Emergency number | : 1-800-265-0761 1 800 424 9399 CHEMTREC |
| | 1-800-424-9300 - CHEMTREC 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted |
| | |
| SECTION 2: Hazard(s) identification | |
| 2.1. Classification of the substance or m | ixture |
| GHS US classification | |
| Corrosive to metals Category 1 | May be corrosive to metals |
| Acute toxicity (oral) Category 4 | Harmful if swallowed |
| Skin corrosion/irritation Category 1C Serious eye damage/eye irritation Category 1 | Causes severe skin burns and eye damage |
| Carcinogenicity Category 1A | Causes serious eye damage May cause cancer |
| | |
| 2.2. GHS Label elements, including prec | autionary statements |
| GHS US labeling | |
| Hazard pictograms (GHS US) | |
| | |
| | |
| | |
| | GHS05 GHS07 GHS08 |
| Signal word (GHS US) | : Danger |
| Hazard statements (GHS US) | : May be corrosive to metals |
| | Harmful if swallowed Causes severe skin burns and eye damage |
| | Causes severe skin burns and eye damage Causes serious eye damage |
| | May cause cancer |
| Precautionary statements (GHS US) | : Obtain special instructions before use. |
| | Do not handle until all safety precautions have been read and understood. |
| | Keep only in original container. Do not breathe dust/fume/gas/mist/vapors/spray. |
| | Wash hands, forearms and face thoroughly after handling. |
| | Do not eat, drink or smoke when using this product. |
| | Wear protective gloves/protective clothing/eye protection/face protection. |
| | If swallowed: Call a poison center or doctor if you feel unwell. If swallowed: rinse mouth. Do NOT induce vomiting. |
| | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with |
| | water/shower. |
| | If inhaled: Remove person to fresh air and keep comfortable for breathing. |
| | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present |
| 02/24/2021 | EN (English US) |

| If expo Immed Specifi Rinse i Wash Absorb Store is Store in | sy to do. Continue rinsing. sed or concerned: Get medical advice/atter iately call a poison center or doctor. c treatment (see supplemental first aid instr mouth. contaminated clothing before reuse. o spillage to prevent material-damage. ocked up. n corrosive resistant container with a resista e of contents/container in accordance with | | |
|--|--|--------------------------------------|----------------------|
| regulat | | | ernational |
| | ions. | | |
| 2.3. Other hazards which do not result in classification | ation | | |
| | oduct is toxic to fish. Under United States F unication Standard), this product is conside | | 0.1200 - Hazard |
| 2.4. Unknown acute toxicity (GHS US) | | | |
| Not applicable | | | |
| SECTION 3: Composition/Information on ing | redients | | |
| 3.1. Substances | | | |
| Not applicable | | | |
| 3.2. Mixtures | | | |
| Name | | Product identifier | % |
| Iron(III) sulfate Sulfuric acid | | (CAS-No.) 10028-22-5 | 35 1 – 5 |
| Non-hazardous and/or does not meet criteria for classification | | (CAS-No.) 7664-93-9 (CAS-No.) N/A | Balance |
| | I | | Duluito |
| SECTION 4: First-aid measures | | | |
| 4.1. Description of first aid measures | | | |
| | ALED: Remove person to fresh air and kee ER or doctor/physician if you feel unwell. | p comfortable for breathin | ng. Call a POISON |
| | SKIN: Wash with plenty of soap and water. /attention. | If skin irritation or rash o | ccurs: Get medical |
| | YES: Rinse cautiously with water for several system of the several system of the continue rinsing. If eye irritation p | | |
| | ALLOWED: Call a POISON CENTER or door T induce vomiting unless directed to do so | | unwell. Rinse mouth. |
| 4.2. Most important symptoms and effects (acute a | and delayed) | | |
| Symptoms/effects after skin contact : May ca | ause severe skin burns. | | |
| | s serious eye damage. | | |
| | ll if swallowed. | | |
| Chronic symptoms : May ca | ause cancer. | | |
| 4.3. Immediate medical attention and special treat | ment, if necessary | | |
| Treat symptomatically. | | | |
| frou officiation of the second s | | | |
| | | | |
| SECTION 5: Fire-fighting measures | | | |
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| SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media Suitable extinguishing media : Water Unsuitable extinguishing media : Avoid h 5.2. Specific hazards arising from the chemical Reactivity : The pro- | spray. Dry powder. Foam. Carbon dioxide. neavy hose streams. oduct is non-reactive under normal conditio | ns of use, storage and tra | ansport. |
| SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media Suitable extinguishing media : Water Unsuitable extinguishing media : Avoid f 5.2. Specific hazards arising from the chemical Reactivity : The pro- 5.3. Special protective equipment and precautions | spray. Dry powder. Foam. Carbon dioxide. neavy hose streams. oduct is non-reactive under normal conditio | - | ansport. |

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| SECTION 6: Accidental relea | se measures |
|------------------------------------|--|
| 6.1. Personal precautions, prot | tective equipment and emergency procedures |
| 6.1.1. For non-emergency person | nnel |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing vapors or fumes. Evacuate unnecessary personnel. Wear appropriate personal protective equipment, avoid direct contact. |
| 6.1.2. For emergency responders | S |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection. |
| Emergency procedures | : Do not scatter spilled material with high pressure water streams. Do NOT wash away into sewer. Avoid release to the environment. Stay upwind. Stop release. Ventilate area. Wear appropriate personal protective equipment, avoid direct contact. Evacuate unnecessary personnel. Stop leak if safe to do so. Do not touch spilled material. |
| 6.2. Environmental precautions | S |
| Do NOT wash away into sewer. Avoid | release to the environment. |
| 6.3. Methods and material for c | containment and cleaning up |
| Methods for cleaning up | : Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Wear appropriate personal protective equipment, avoid direct contact. |
| SECTION 7: Handling and st | orage |
| 7.1. Precautions for safe handl | ing |
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing fumes. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| 7.2. Conditions for safe storag | e, including any incompatibilities |
| Storago conditions | · Store in a well ventilated place. Keen coal, Keen from freezing, Keen only in ariginal container |

 Storage conditions
 : Store in a well-ventilated place. Keep cool. Keep from freezing. Keep only in original container. Keep container tightly closed. Store locked up.

 Incompatible materials
 : Strong oxidizers. Strong bases. Strong acids. Metals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Sulfuric acid (7664-93-9) | | | | |
|---------------------------|--------------------|---|--|--|
| ACGIH | ACGIH OEL TWA | 0.2 mg/m ³ (thoracic particulate matter) | | |
| ACGIH | Remark (ACGIH) | Pulm func | | |
| OSHA | OSHA PEL (TWA) [1] | 1 mg/m³ | | |
| IDLH | IDLH | 15 mg/m³ | | |
| NIOSH | NIOSH REL (TWA) | 1 mg/m³ | | |

| 8.2. Appropriate engineering controls | |
|--|---|
| Appropriate engineering controls | : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. |
| Environmental exposure controls | : Avoid release to the environment. |
| 8.3. Individual protection measures/Pe | ersonal protective equipment |
| | |
| Hand protection: | |

Hand protection:

Wear chemical resistant gloves

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear long-sleeved shirt, long pants, socks and shoes

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Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.



SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

| Physical state | : | Liquid |
|---|---|-----------------------------|
| Appearance | : | Brown to reddish liqiud |
| Color | : | Brown to reddish |
| Odor | : | No data available |
| Odor threshold | : | No data available |
| рН | : | 1 as is, 4.8 in 1% solution |
| Melting point | : | 14.44 °C (58 °F) |
| Freezing point | : | No data available |
| Boiling point | : | 100 °C (212 °F) |
| Flash point | : | No data available |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | 1.57 – 1.62 |
| Solubility | : | Soluble |
| Partition coefficient n-octanol/water (Log Pow) | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosion limits | : | No data available |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | Not applicable |
| | | |

9.2. Other information

No additional information available

| SECTION 10: Stability and react | vity | |
|--|------|--|
| | | |

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Excessive heat and freezing conditions.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids. Metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Decomposes upon heating to produce toxic gases including sulfur oxides.

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SECTION 11: Toxicological information Information on toxicological effects 11.1. Lilly Miller Moss Out! For Lawns Concentrate ATE (Oral) 500 mg/kg body weight Sulfuric acid (7664-93-9) Listed on IARC (International Agency for Research on Cancer) **GHS-US Properties** Classification Harmful if swallowed. Acute toxicity (oral) Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified Skin corrosion/irritation Causes severe skin burns. Serious eye damage/irritation Causes serious eye damage. Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity May cause cancer. Reproductive toxicity Not classified Specific target organ toxicity Not classified (single exposure) Specific target organ toxicity Not classified (repeated exposure) Aspiration hazard Not classified

Potential health effects

| Inhalation | |
|----------------------|---|
| Acute | : Under normal conditions of use, no health effects are expected. |
| Skin | |
| Acute | : Causes serious skin burns. |
| Eye | |
| Acute | : Causes serious eye damage. |
| Ingestion | |
| Acute | : Harmful if swallowed. |
| Mutagenicity | : Not classified. |
| Carcinogenicity | : Strong inorganic acid aerosols/mists containing sulfuric acid are carcinogenic to humans via inhalation. Under normal conditions of use this route of exposure is not expected. |
| Reproductive Effects | : Not classified. |

| SECT | ON 12: Ecological information | | |
|-------------------|--|--------------------------------|--|
| 12.1. | Toxicity | | |
| No data | available | | |
| 12.2. | Persistence and degradability | | |
| No data | available | | |
| 12.3. | Bioaccumulative potential | | |
| No data | No data available | | |
| 12.4. | Mobility in soil | | |
| No data available | | | |
| 12.5. | Other adverse effects | | |
| Lilly N | Lilly Miller Moss Out! For Lawns Concentrate | | |
| Ecolog | jical Fate | This product is toxic to fish. | |

| SECTIC | SECTION 13: Disposal considerations | | |
|-----------|-------------------------------------|--|---|
| 13.1. | Disposal methods | | |
| Product/P | ackaging disposal recommendations | | Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. |

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| SECTION 14: Transport information | | | | | |
|-----------------------------------|-----------|---|-------------------------------|---------------|---|
| | UN number | Proper Shipping Name | Transport hazard class(es) | Packing group | Environmental hazards |
| DOT | UN3264 | Corrosive liquid, acidic, inorganic, n.o.s. (Ferric sulfate & Sulfuric acid) | 8 | 111 | RQ Ferric sulfate = 1,000 lbs. Sufuric acid = 1,000 lbs. |
| IMDG | UN3264 | Corrosive liquid, acidic, inorganic, n.o.s. (Ferric sulfate & Sulfuric acid) | 8 | Ш | Not applicable |
| ΙΑΤΑ | UN3264 | Corrosive liquid, acidic, inorganic, n.o.s. (Ferric sulfate & Sulfuric acid) | 8 | 111 | Not applicable |

SECTION 15: Regulatory information

15.1. US Federal regulations

| Listed on the United States TSCA (Toxic Substa | |
|---|--|
| CERCLA RQ | 1000 lb |
| Sulfuric acid (7664-93-9) | |
| Listed on the United States TSCA (Toxic Substa Listed on the United States SARA Section 302 Subject to reporting requirements of United State | |
| CERCLA RQ | 1000 lb |
| Section 302 EPCRA Reportable Quantity (RQ) | 1000 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 lb |
| SARA Section 313 - Emission Reporting | 1 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size) |
| EPA Labelling | |
| EPA Registration Number | 802-509 |
| requirements under federal pesticide law. These | y the United States Environmental Protection Agency and is subject to certain labeling e requirements differ from the classification criteria and hazard information required for safety on-pesticide chemicals. The hazard information required on the pesticide label is reproduced aportant information, including directions for use. |
| FIFRA Hazard statements | Warning |
| FIFRA Precautionary statements | KEEP OUT OF REACH OF CHILDREN. |
| FIFRA Hazards to Humans and Domestic Animals | Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear such as goggles or safety glasses, long-sleeved shirt and long pants, socks, shoes and gloves. Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, usin tobacco or using the toilet. Do not allow persons or pets in treated areas until sprays have dried. |
| FIFRA First aid | Have product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently wit_h 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 swallowed: Call a poison control center or doctor for treatment advice. Have person sip a glass 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 anything by mouth to an unconscious person. If inhaled: Move person 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. If on skin or on 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. |
| FIFRA Environmental hazards | This product is toxic to fish. 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 call 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. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage ditches. |

No additional information available

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SECTION 16: Other information

| Date of issue | : 26 February 2016 |
|---------------|--------------------|
| Revision date | : 24 February 2021 |
| Supersedes | : 13 November 2019 |

Indication of changes:

Revised Sec. 3: Mixture classification change. Sec. 14: Updated transportation description.

SDS US (GHS HazCom 2012) - CGP

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