

# 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			
SECTION 5: Fire-fighting measures         5.1.       Suitable (and unsuitable) extinguishing media         Suitable extinguishing media       : Water         Unsuitable extinguishing media       : Avoid b	spray. Dry powder. Foam. Carbon dioxide.		
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	spray. Dry powder. Foam. Carbon dioxide.	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 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.

Safety Data Sheet

<b>SECTION 6: Accidental relea</b>	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 <sup>3</sup> (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

Safety Data Sheet

#### **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

<b>SECTION 10: Stability and react</b>	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.

Safety Data Sheet

#### **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.

## Lilly Miller Moss Out! For Lawns Concentrate Safety Data Sheet

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

Safety Data Sheet

#### **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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