

Version: 0.0

Material Safety Data Sheet

United States

Miracle-Gro Lawn Products Inc. 14111 Scottslawn Road Marysville, Ohio 43041 United States 24 h. EMERGENCY TELEPHONE NUMBER CHEMTREC (U.S.) 1-800-424-9300 CHEMTREC (International) 1-703-527-3887 Non-Emergency Calls 1-937-644-0011

MIRACLE-GRO WATER SOLUBLE ALL PURPOSE PLANT FOOD 24-8-16

1. Product and company identification

SKU # : 1000282, 1000992, 1001122, 1001192, 1001232, 1007502, 2001122,

2001232, 201625, 226001, 3001192, 500029, 5000292, 5001122

MSDS # : 32000000133

2. Hazards identification

Physical state : Solid [CRYSTALLINE POWDER.]

Odor : Fertilizer

OSHA/HCS status : This material is/or contains a chemical that is considered hazardous by

the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview : No harmful effects expected.

Potential chronic health effects

Chronic effects : Contains material that can cause target organ damage.

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Target organs: Contains material which causes damage to the following organs:

gastrointestinal tract

skin eyes

Over-exposure signs/symptoms

Inhalation:No specific data.Ingestion:No specific data.Skin:No specific data.Eyes:No specific data.

Medical conditions aggravated : Pre-existing skin disorders may be aggravated by over-exposure to this

by over-exposure product. **Interactions with other** : Not available.

Chemicals

See toxicological information (section 11)

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3. Composition/information on ingredients

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<u>Name</u>	CAS number	<u>%</u>	
Urea	57-13-6	40 - 70	
Potassium chloride (KCI)	7447-40-7	15 - 30	
Ferrate(1-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-	15708-41-5	1 - 3	
.kappa.O)methyl]glycinatokappa.N,.kappa.O]](4-)]-, sodium			
(1:1), (OC-6-21)-			

4. First aid measures

Eye contact	 Hold eye open and rinse slowly and gently with water for 15 to 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 contact	: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	: 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.
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 told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.
Protection of first-aiders	 No action shall be taken involving any personal risk or without suitable training.

5. Fire-fighting measures

Flammability of the product	:	No specific fire or explosion hazard.
Extinguishing media		
Suitable	:	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	:	None known.
Special exposure hazards	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides halogenated compounds

metal oxide/oxides

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in

positive pressure mode.

6. Accidental release measures

Personal precautions	:	Evacuate surrounding areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk through spilled material.
		Put on appropriate personal protective equipment (see section 8).
Environmental precautions	:	No specific hazard.
Methods for cleaning up	:	Vacuum or sweep up material and place in container for disposal. Never place down drain.

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7. Handling and storage

Handling Avoid inhalation or contact with skin, eyes or clothing. Avoid container

> breakage. Do not contaminate water sources when disposing of equipment washwater or rinsate. Keep out of lakes, stream or ponds.

Keep out of reach of children.

Storage Store in original container in a cool, dry, well-ventilated area

inaccessible to children and pets. Do not contaminate food or

feedstuffs.

8. Exposure controls/personal protection

Product name Exposure limits

Urea AIHA WEEL (1999-01-01) Time Weighted Average (TWA)

10 mg/m3

Ferrate(1-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-

.kappa.O)methyl]glycinato-

.kappa.N,.kappa.O]](4-)]-, sodium (1:1), (OC-6-

21)-

NIOSH REL (1994-06-01) Time Weighted Average (TWA) 1

mg/m3

OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure

Level 1 mg/m3 Form: Soluble

ACGIH TLV (1994-09-01) TLV-TWA: Threshold Limit Value -Time weighted average PEL: Permissible Exposure Level 1

mg/m3

Consult local authorities for acceptable exposure limits.

Engineering measures Use adequate ventilation to keep the airborne concentrations below the

recommended exposure standard.

Hygiene measures Wash thoroughly with soap and water after handling. Remove and

launder contaminated clothing before reuse.

Personal protection

No special respiratory protection required. If ventilation is inadequate to Respiratory

keep the airborne concentrations below the recommended exposure

standard wear appropriate respiration protection.

Hands Protective gloves are not required, but may be used in situations were

significant contact is expected.

Protective eyewear is not required, but may be used in situations were **Eyes**

contact is expected.

Skin No special protective clothing is required.

9. Physical and chemical properties

Physical state Solid [CRYSTALLINE POWDER.]

Color Color-PantoneBlue. Flash point Not available. **Auto-ignition temperature** Not available. Odor Fertilizer **Odor threshold** Not available. Not available. рΗ **Boiling/condensation point** Not available. Melting/freezing point Not available. **Critical temperature** Not available. Density Not available. Vapor pressure Not available. Not available. Vapor density **Evaporation rate** Not available. Viscosity Not available. Solubility Not available. Partition Coefficient (n-Not available.

octanol)

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Decomposition temperature : Not available.

10. Stability and reactivity

Conditions to avoid : The product is stable.

Conditions to avoid : No specific data.

Materials to avoid : No specific data.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition

products

products should not be produced.

Under normal conditions of storage and use, hazardous reactions will

Possibility of hazardous : Under nor not occur.

11. Toxicological information

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Urea	LD50 Oral	Rat	8,471 mg/kg	-
Potassium chloride (KCI)	LD50 Oral	Rat	2,600 mg/kg	-
Ferrate(1-), [[N,N'-1,2-	LD50 Oral	Rat	> 5,000 mg/kg	-
ethanediylbis[N-[(carboxy-				
.kappa.O)methyl]glycinato-				
.kappa.N,.kappa.O]](4-)]-, sodium				
(1:1), (OC-6-21)-				
Ferrate(1-), [[N,N'-1,2-	LD50 Dermal	Rat	> 5,000 mg/kg	-
ethanediylbis[N-[(carboxy-				
.kappa.O)methyl]glycinato-				
.kappa.N,.kappa.O]](4-)]-, sodium				
(1:1), (OC-6-21)-				

Conclusion/Summary No known significant effects or critical hazards.

Irritation/Corrosion

Skin Non-irritating

Eyes May cause eye irritation.
Respiratory May cause respiratory irritation

Sensitizer

Conclusion/SummarySkin
Not sensitizing - based on the individual components
Respiratory
Not sensitizing - based on the individual components

Chronic toxicity

Conclusion/Summary No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary No known significant effects or critical hazards.

Mutagenicity

Conclusion/Summary No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity No known significant effects or critical hazards.

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Aquatic ecotoxicity

Conclusion/Summary No known significant effects or critical hazards.

Persistence/degradability

Conclusion/Summary No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal Disposal should be in accordance with applicable regional, national and

local laws and regulations.

14. Transport information

Regulatory

information UN no. Proper shipping name Class PG* Note

DOT Not Regulated

PG*: Packing group

15. Regulatory information

<u>United States</u>:

U.S. Federal regulations

California Prop. 65 : Not listed.

United States inventory (TSCA: All components are listed or exempted.

8b)

Canada inventory : All components are listed or exempted.

16.Other information

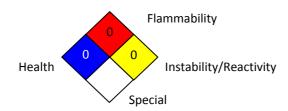
Hazardous Material Information System (U.S.A.):

Health	1
Flammability	0
Physical hazards	0

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Notice to reader

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