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Version: 1.1

United States

Material Safety Data Sheet

Scotts Miracle-Gro 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

MSDS# 32000000133

2. Hazards identification

solid [CRYSTALLINE POWDER.] Physical state

Color-Pantone Blue. Color

Odor Fertilizer

OSHA/HCS status This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Emergency Overview No harmful effects expected.

Potential acute health effects

Inhalation Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Skin No known significant effects or critical hazards. **Eves**

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

gastrointestinal tract

skin eyes

Potential chronic health effects: See section 11 for more information.

Over-exposure signs/symptoms

No specific data. Inhalation **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

See toxicological information (Section 11)

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Composition/information on ingredients

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

First aid measures

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Eve contact

> Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Take off contaminated clothing. Rinse skin immediately with plenty of Skin contact

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.

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 may include the following materials: decomposition products carbon dioxide

carbon monoxide nitrogen oxides

halogenated compounds

metal oxide/oxides

Special protective equipment Fire-fighters should wear appropriate protective equipment and selffor fire-fighters

contained breathing apparatus (SCBA) with a full face-piece operated in

positive pressure mode.

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.

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Methods for cleaning up

Small spill Move containers from spill area. Vacuum or sweep up material and place in

a designated, labeled waste container. Dispose of via a licensed waste

disposal contractor.

Large spill Vacuum or sweep up material and place in container for disposal. Never

place down drain.

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

Occupational exposure limits

Ingredient	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]glycinatokappa.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.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

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.

Protective gloves are not required, but may be used in situations were Hands significant contact is expected.

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

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Eyes

contact is expected.

Skin Environmental exposure

controls

No special protective clothing is required.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : solid [CRYSTALLINE POWDER.]

Flash point : Not Applicable
Burning time : Not Applicable
Auto-ignition temperature : Not Applicable
Flammable limits : Not Applicable
Density : Not Applicable
Color : Color-Pantone Blue.

Color Fertilizer Odor pН Not Applicable **Boiling/condensation point** Not Applicable Melting/freezing point Not Applicable Relative density Not Applicable Not Applicable Vapor pressure Not Applicable Vapor density Volatility Not Applicable Not Applicable **Odor threshold** Not Applicable **Evaporation rate** Not Applicable Viscosity **Solubility** Not Applicable Solubility in water Not Applicable

10. Stability and reactivity

Chemical stability : The product is stable.
Conditions to avoid : No specific data.
Incompatible materials : No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not

reactions occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Urea	LD50 Oral	Rat	8,471 mg/kg	-
Potassium chloride (KCl)	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-				
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.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/Summary Skin 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

Product/ingredient Result Species Dose Exposure

name

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.

Aquatic ecotoxicity

Conclusion/Summary: No known significant effects or critical hazards.

Persistence/degradability

Conclusion/Summary : No known significant effects or critical hazards.

Partition coefficient: n-

octanol/water

No known significant effects or critical hazards.

Other adverse effects : 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.

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14.Transport information

Regulatory

<u>information</u> <u>UN no.</u> <u>Proper shipping name</u> <u>Class</u> <u>PG*</u> <u>Note</u>

DOT Not Regulated

PG*: Packing group

15.Regulatory information

United States

U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were

found.

SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Urea: Acu, Del Potassium chloride (KCl): Acu, Del Sulfuric acid ammonium salt (1:2): Acu Ferrate(1-), [[N,N'-1,2-

ethanediylbis[N-[(carboxy-.kappa.O)methyl]glycinato-

.kappa.N,.kappa.O]](4-)]-, sodium (1:1), (OC-6-21)-: Acu 1,2,3-

Propanetricarboxylic acid, 2-hydroxy-: Acu

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: The following components are listed:

Benzenesulfonic acid, dodecyl-, sodium salt (1:1)

Clean Air Act (CAA) 112 accidental release prevention: No products

were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products

were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were

found.

United States inventory (TSCA

All components are listed or exempted.

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State regulations

Massachusetts : The following components are listed: Sulfuric acid ammonium salt (1:2)

New York : None of the components are listed.

New Jersey : The following components are listed: Sulfuric acid ammonium salt (1:2)

Pennsylvania : The following components are listed: Sulfuric acid ammonium salt (1:2)

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

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

21)-

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California Prop. 65 : Not listed.

International regulations

Canada inventory : All components are listed or exempted.

International lists : Australia inventory (AICS): At least one component is not listed.

New Zealand Inventory of Chemicals (NZIoC): At least one component is not

listed.

China inventory (IECSC): At least one component is not listed.

Japan inventory: At least one component is not listed. **Korea inventory:** At least one component is not listed.

Philippines inventory (PICCS): At least one component is not listed.

16.Other information

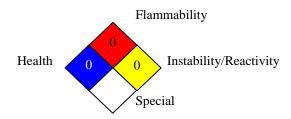
Hazardous Material Information System (U.S.A.):

Health	1
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.):



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