



United States

Material Safety Data Sheet

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 NATURE'S CARE SLUG & SNAIL CONTROL

1. Product and company identification

MSDS # : 320000006113

2. Hazards identification

Physical state : solid [pellets]

Color : Light brown.

Odor : Wheat-flour smell

Signal word : CAUTION!

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Emergency Overview
Causes moderate eye irritation.
Avoid contact with skin, eyes or clothing.
Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin : No known significant effects or critical hazards.

Eyes : No known significant effects or critical hazards.

Target organs : None known.

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

Over-exposure signs/symptoms

Inhalation : No specific data.

Ingestion : No specific data.

Skin : No specific data.

Eyes : No specific data.

Medical conditions aggravated by over-exposure : None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

| Name | CAS number | % |
|--------------------------------------|------------|------------|
| Phosphoric acid, iron(3+) salt (1:1) | 10045-86-0 | >0.5 - <=1 |

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.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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** : No specific data.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : 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** : To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches gutters or surface waters

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 |
|--------------------------------------|--|
| Phosphoric acid, iron(3+) salt (1:1) | <p>NIOSH REL (1994-06-01) Time Weighted Average (TWA) 1 mg/m³</p> <p>OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 1 mg/m³ Form: Soluble</p> <p>ACGIH TLV (1994-09-01) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 1 mg/m³</p> |

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

- Respiratory** : No special respiratory protection required. If ventilation is inadequate to keep the airborne concentrations below the recommended exposure standard wear appropriate respiration protection.
- Hands** :
- Eyes** : Protective eyewear is not required, but may be used in situations where contact is expected.
- Skin** : No special protective clothing is required.
- Environmental exposure controls** : 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 [pellets] |
| Flash point | : Not Applicable |
| Burning time | : Not Applicable |
| Auto-ignition temperature | : Not Applicable |
| Flammable limits | : Not Applicable |
| Density | : 0.81 g/cm ³ |
| Color | : Light brown. |
| Odor | : Wheat-flour smell |
| pH | : Not Applicable |
| Boiling/condensation point | : Not Applicable |
| Melting/freezing point | : Not Applicable |
| Relative density | : Not Applicable |
| Vapor pressure | : Not Applicable |
| Vapor density | : Not Applicable |
| Volatility | : Not Applicable |
| Odor threshold | : Not Applicable |
| Evaporation rate | : Not Applicable |
| Viscosity | : Not Applicable |
| 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 reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |

11. Toxicological information

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-------------|---------|---------------|----------|
| Product | LD50 Oral | Rat | > 5,000 mg/kg | - |
| Product | LD50 Dermal | Rat | > 5,000 mg/kg | - |

Conclusion/Summary Very low toxicity to humans or animals.

Irritation/Corrosion

| | |
|-------------|----------------------------------|
| Skin | Non-irritating |
| Eyes | Causes 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 name | Result | Species | Dose | Exposure |
|--------------------------------|---------------|----------------|-------------|-----------------|
|--------------------------------|---------------|----------------|-------------|-----------------|

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.

14. Transport information

Regulatory information

| <u>UN no.</u> | <u>Proper shipping name</u> | <u>Class</u> | <u>PG*</u> | <u>Note</u> |
|----------------------|------------------------------------|---------------------|-------------------|--------------------|
| DOT | Not Regulated | | | |
| IATA (C) | Not Regulated | | | |
| IATA (P) | | | | |
| IMDG | Not Regulated | | | |
| TDG | 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: No products were found.

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

Clean Water Act (CWA) 311: No products were found.

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 8b) : All components are listed or exempted.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : The following components are listed: Phosphoric acid, iron(3+) salt (1:1)

California Prop. 65 : Not listed.

International regulations

Canada inventory : At least one component is not listed.

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

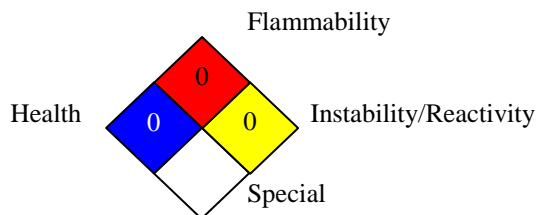
Hazardous Material Information System (U.S.A.) :

| | |
|-------------------------|---|
| Health | 1 |
| Flammability | 0 |
| Physical hazards | 0 |
| | |

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

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



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Date of printing : 06/11/2013
 Date of issue : 06/11/2013
 Version : 1.0

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