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#### **United States**

# Material Safety Data Sheet

Miracle-Gro Lawn Products Inc 14111 Scottslawn Road Marysville, Ohio 43041 United States

### MIRACLE-GRO LIQUAFEED ALL PURPOSE PLANT FOOD 12-4-8

### **Section 1. Identification**

GHS product identifier : MIRACLE-GRO LIQUAFEED ALL PURPOSE PLANT FOOD 12-

4-8

Product type : Fertilizer SDS # : 32000002880

### Relevant identified uses of the substance or mixture and uses advised against

Use only in accordance with label directions.

### Section 2. Hazards identification

This product is regulated by the Consumer Product Safety Commission (CPSC) for label precautionary text see Section 15.

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.

Classification of the substance or

mixture

Not classified.

#### **GHS label elements**

Signal word : None

**Hazard statements** : No known significant effects or critical hazards.

#### **Precautionary statements**

**General**: Read label before use. Keep out of reach of children. If medical advice

is needed, have product container or label at hand.

Prevention : Not applicable.
Response : Not applicable.

Report version.Re port

Storage:Not applicable.Disposal:Not applicable.Supplemental label elements:None known.Hazards not otherwise classified:None known.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

**Chemical name** : Not available. **Other means of identification** : Not available.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the

upper and lower eyelids. Check for and remove any contact lenses.

Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable

for breathing. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. If material has been swallowed and the

exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

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Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

No specific treatment.

**Protection of first-aiders** 

No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

None known.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container

may burst.

**Hazardous thermal** decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides halogenated compounds

metal oxide/oxides

Special protective actions for firefighters

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.

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.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Report version.Re port

Date of issue/Date of revision: Validity date \*\*\*. Date of previous issue: 06/05/2013 Version: version

#### Methods and materials for containment and cleaning up

**Spill** 

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

Protective measures Advice on general occupational hygiene Put on appropriate personal protective equipment (see Section 8).

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

None.

**Appropriate engineering controls** 

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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.

#### **Individual protection measures**

Report version.Re port

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### **Skin protection**

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state : liquid [liquid]
Color : Clear Green

Odor : Fertilizer
Odor threshold : Not available.

**pH** : 6.9

Melting point: Not available.Boiling point: Not available.Flash point: Not available.Evaporation rate: Not available.Flammability (solid, gas): Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressure : Not available.

Report version.Re port

Vapor density: Not available.Relative density: Not available.Solubility: Not available.Partition coefficient: n-: Not available.

octanol/water

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

Viscosity : Dynamic: Not available.

Kinematic: Not available.

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or

its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

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

**products** products should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

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

**Conclusion/Summary** : Very low toxicity to humans or animals.

#### **Irritation/Corrosion**

Conclusion/Summary

Skin : Non-irritating

Eyes : May cause eye irritation.

**Respiratory** : Non-irritating

Sensitization

Conclusion/Summary

SkinNot sensitizing - based on the individual components.RespiratoryNot sensitizing - based on the individual components.

Report version.Re port

**Mutagenicity** 

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

Carcinogenicity

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

**Reproductive toxicity** 

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

**Teratogenicity** 

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

**Specific target organ toxicity (single exposure)** 

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Velcro Closure

Information on the likely routes of

imormation on the fixery rot

Not available.

exposure

Potential chronic health effects

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

General:No known significant effects or critical hazards.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.

# Section 12. Ecological information

**Toxicity** 

**Conclusion/Summary** : Not available.

Persistence and degradability

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

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#### **Mobility in soil**

Soil/water partition coefficient

(KOC)

Not available.

Other adverse effects

No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 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 IATA (C) Not Regulated

IATA (P)

IMDG Not Regulated TDG Not Regulated

PG\*: Packing group

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# **Section 15. Regulatory information**

**Precautionary statements** 

**Signal word** : No signal word.

**Emergency Overview** : Keep out of reach of children.

Report version.Re port

<u>U.S. Federal regulations</u>: United States inventory (TSCA 8b):

All components are listed or exempted.

#### **State regulations**

California Prop. 65
Not available.

#### **International lists**

#### **National inventory**

Australia: All components are listed or exempted.Canada: All components are listed or exempted.China: All components are listed or exempted.Europe: All components are listed or exempted.Japan: All components are listed or exempted.

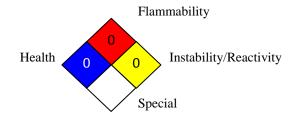
Malaysia : Not determined.

New Zealand : All components are listed or exempted.

Philippines: Not determined.Republic of Korea: Not determined.Taiwan: Not determined.

### **Section 16. Other information**

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



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#### <u>History</u>

Report version.Re port

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Version : Report version. Report version

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