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United States Safety Data Sheet

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

Section 1. Identification

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 LIQUAFEED TOMATO, FRUITS & VEGETABLES PLANT FOOD 9-4-9

GHS product identifier	:	MIRACLE-GRO LIQUAFEED TOMATO, FRUITS & VEGETABLES PLANT FOOD 9-4-9
Product type SDS #	:	Fertilizer 32000002446

<u>Relevant identified uses of the substance or mixture and uses advised against</u> 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	:		Communica valuable inf product. Th	ation Standar Formation cri	rd (29 CI itical to ti ould be r	FR 1910.1200) he safe handlir	, this M ng and J	e OSHA Hazard ISDS contains proper use of the for employees
Classificatio mixture	on of the substa	ince or :		Not classifi	ed.				
GHS label el	ements								
Signal word	1	:		None					
Hazard stat	tements	:		No known s	significant ef	ffects or	critical hazards	8.	
Precaution	ary statements								
General		:		Read label	before use. K	Keep out	of reach of chi	ldren. I	f medical advice
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Prevention Response Storage Disposal Supplemental label elements Hazards not otherwise classified	:	is needed, have product container or label at hand. Not applicable. Not applicable. Not applicable. Not applicable. None known. None known.
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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.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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

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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

Notes to physician Specific treatments	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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 Hazardous thermal decomposition products	:	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Special protective actions for fire- fighters Special protective equipment for fire-fighters	:	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. Fire-fighters should wear appropriate protective equipment and self- contained 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 pers	suitable tr unprotecto	shall be taken involving any personal risk or without aining. Evacuate surrounding areas. Keep unnecessary and ed personnel from entering. Do not touch or walk through terial. Put on appropriate personal protective equipment.			
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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).
Methods and materials for contain	nment a	nd 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

Occupational exposure limits None.				
Appropriate engineering controls	U	neral ventilation shout to airborne contan	ould be sufficient to cont ninants.	rol worker
Environmental exposure controls			or work process equipme ply with the requirements	
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		necessary to reduce emissions to acceptable levels.
Individual protection measures		
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.

environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be

Section 9. Physical and chemical properties

Appearance

Physical s Color	state	:	liquid [C] Green.	lear liquid]		
Odor Odor thres pH	hold	:	Ammonia Not avail Not appl 6.8	lable.		
Melting poi Boiling poir		:	Not avail Not avail			
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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.
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

	its ingredients.
:	The product is stable.
:	Under normal conditions of storage and use, hazardous reactions will
	not occur.
:	No specific data.
:	No specific data.
:	Under normal conditions of storage and use, hazardous decomposition
	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	-
	LC50 Inhalation	Rat	> 5 mg/l	4 h
	LD50 Dermal	Rat	> 5,000 mg/kg	-

Conclusion/Summary

No known significant effects or critical hazards.

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
	Eyes -	Rabbit	1.0		-
	Redness of				

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the conjunctivae			
Skin -	Rabbit	1.0	-
Erythema/Es			
char			

Conclusion/Summary	
Skin	: May cause skin irritation.
Eyes	: May cause eye irritation.
Respiratory	: May cause respiratory irritation

Sensitization

Conclusion/Summary Skin : Not sensitizing - based on the individual components. Respiratory : Not sensitizing - based on the individual components. Mutagenicity : Not sensitizing - based on the individual components. Conclusion/Summary : Not sensitizing - based on the individual components. Conclusion/Summary : No known significant effects or critical hazards. Conclusion/Summary : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards. Conclusion/Summary : No known significant effects or critical hazards. Teratogenicity : No known significant effects or critical hazards. Conclusion/Summary : No known significant effects or critical hazards. Specific target organ toxicity (single exposure) Not available. Not available. : Not available. Aspiration hazard : Not available. Potential chronic health effects : Not available. Report : Not available.	Product/ingredient name	Route of e	xposure	Species	Result
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Skin : Not sensitizing - based on the individual components. Respiratory : Not sensitizing - based on the individual components. Mutagenicity : Not sensitizing - based on the individual components. Mutagenicity : Not sensitizing - based on the individual components. Conclusion/Summary : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards. Conclusion/Summary : No known significant effects or critical hazards. Teratogenicity : No known significant effects or critical hazards. Specific target organ toxicity (single exposure) Not available. Not known significant effects or critical hazards. Specific target organ toxicity (repeated exposure) Not available. Not available. Aspiration hazard Not available. : Information on the likely routes of wersion.Re : Not available. Report wersion.Re : Not available.					
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Carcinogenicity Image: Conclusion/Summary Image: Conclusio	Mutagenicity				
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exposure Potential chronic health effects Report version.Re	Not available.				
Report version.Re		tes of :	Not available.		
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Conclusion/Summary	:	No known significant effects or critical hazards.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	::	No known significant effects or critical hazards. No known significant effects or critical hazards.

Section 12. Ecological information

Conclusion/Summary	:	Not available.
Persistence and degradability		
Conclusion/Summary	:	No known significant effects or critical hazards.
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
		product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

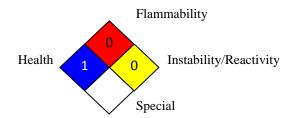
<u>Regulatory</u> <u>information</u> DOT	<u>UN no.</u>	Proper shipping name Not Regulated		<u>Class</u>	<u>PG*</u>	<u>Note</u>
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<u>Regulatory</u> information	<u>UN no.</u>	Proper shipping name	Class	<u>PG*</u>	<u>Note</u>	
IATA (C)		Not Regulated				
IATA (P)						
IMDG		Not Regulated				
TDG		Not Regulated				
PG* : Packing	group					
Section 15. Regulatory information						

<u>Precautionary statements</u> Signal word Emergency Overview	:	No signal word. Keep out of reach of children.		
U.S. Federal regulations		:	United States inventory (TSCA 8b): Not determined.	
State regulations				
California Prop. 65 Not available.				
International lists				
National inventory				
Australia		:	Not determined.	
Canada		:	Not determined.	
China		:	Not determined.	
Europe		:	Not determined.	
Japan		:	Not determined.	
Malaysia		:	Not determined.	
New Zealand		:	Not determined.	
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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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification		
Not classified.			

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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