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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

Date of previous issue: 12/17/2012

NATURE'S CARE ORGANIC & NATURAL VEGETABLE, FRUIT & FLOWER FOOD 3-4-2

1. Product and company identification				
MSDS #	:	320000005105		
2. Hazards identification				
Physical state	:	solid [Granule]		
Color	:	Brown.		
Odor	:	Fertilizer		
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		No harmful effects expected.		
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 effec	<u>:ts</u> : See	section 11 for more information.		
Over-exposure signs/sympton	<u>ns</u>			
Tabalation	:	No specific data.		
Inhalation				
Ingestion	:	No specific data.		
	:	No specific data.		
Ingestion	:			
Ingestion Skin Eyes Medical conditions aggravate	: : ed :	No specific data.		
Ingestion Skin		No specific data. No specific data. Pre-existing skin disorders may be aggravated by over-exposure to this product.		

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3. Composition/information on ingredients

Name			CAS number	%
Carbonic acid calcium salt (1:1)			471-34-1	>10 - <=15
			1/1 0/11	
4. First aid measures				
Eye contact	:	Check for and remove any plenty of water for at least lower eyelids. Get medica	t 15 minutes, occasiona	ally lifting the upper and
Skin contact	:	In case of contact, immedi 15 minutes while removin clothing before reuse. Clea attention if symptoms occu	iately flush skin with p g contaminated clothin an shoes thoroughly be	lenty of water for at least ag and shoes. Wash
Inhalation	:	Move exposed person to fi or if respiratory arrest occu trained personnel. Get med	resh air. If not breathin urs, provide artificial re	espiration or oxygen by
Ingestion	:	Wash out mouth with wate so by medical personnel. N person. Get medical attent	er. Do not induce vomi Never give anything by	ting unless directed to do mouth to an unconscious
Notes to physician	:	No specific treatment. Tre specialist immediately if la	at symptomatically. Co	ontact poison treatment
5. Fire-fighting measures				
Flammability of the product	:	No specific fire or explosi-	on hazard.	
Extinguishing media				
Suitable	:	Use an extinguishing agen	t suitable for the surro	unding fire.
Not suitable	:	None known.		
Special exposure hazards	:	Promptly isolate the scene incident if there is a fire. N risk or without suitable tra	No action shall be taker	
Hazardous thermal	:	No specific data.	uning.	
decomposition products Special protective equipment for fire-fighters	:	Fire-fighters should wear a contained breathing appara positive pressure mode.		
6. Accidental release meas	sure	2S		
Personal precautions	:	No action shall be taken ir training. Evacuate surroun personnel from entering. I	iding areas. Keep unne	cessary and unprotected
Environmental precautions	:	on appropriate personal pr Avoid dispersal of spilled waterways, drains and sew has caused environmental	material and runoff and vers. Inform the relevan	d contact with soil, nt authorities if the produc
Methods for cleaning up				
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Small spill Large 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. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
7. Handling and storage		
Handling Storage	:	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. 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.

8. Exposure controls/personal protection

Occupational exposure limits

OSHA PEL (1993-06-30) PEL: Permissible Exposure Level
15 mg/m3 Form: Total dust
OSHA PEL (1993-06-30) PEL: Permissible Exposure Level
5 mg/m3 Form: Respirable fraction

Consult local authorities for acceptable exposure limits.

Recommend procedures	ed monitorinş	workplace at determine the and/or the ne should be ma guidance doc	: If this product contains ingredients with exposure limits, person workplace atmosphere or biological monitoring may be require determine the effectiveness of the ventilation or other control n and/or the necessity to use respiratory protective equipment. Re should be made to appropriate monitoring standards. Reference guidance documents for methods for the determination of hazar substances will also be required.			
Engineering	measures	: No special ve sufficient to product conta local exhaust	entilation requirement control worker expo- sins ingredients with ventilation or other	nts. Good general ventila sure to airborne contami a exposure limits, use pro engineering controls to ed or statutory limits.	nants. If this ocess enclosures,	
Hygiene mea	asures	: Wash hands, products, bef the working j potentially co	forearms and face the ore eating, smoking period. Appropriate ontaminated clothing	horoughly after handling and using the lavatory a techniques should be use g. Wash contaminated clu- tions and safety showers	nd at the end of ed to remove othing before	
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workstation location.

Personal protection		
Respiratory	:	Use a properly fitted, particulate filter 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.
Hands	:	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.
Eyes	:	Protective eyewear is not required, but may be used in situations were 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 [Granule]
Flash point	:	Not Applicable
Burning time	:	Not Applicable
Auto-ignition temperature	:	Not Applicable
Flammable limits	:	Not Applicable
Density	:	0.5126 kg/dm3
Color	:	Brown.
Odor	:	Fertilizer
рН	:	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

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11. Toxicological information

<u>Acute toxicity</u> Product/ingredient name	. 1	Result	Species	Dose	Exposure
Carbonic acid calcium salt		LD50 Oral	Rat	6,450 mg/kg	-
Conclusion/Summary		No known sigr effects or critic		or critical hazards.N	Io known significant
<u>Irritation/Corrosion</u> Skin Eyes Respiratory		Non-irritating May cause eye Non-irritating	irritation.		
<u>Sensitizer</u> Conclusion/Summary	Ski Re	in spiratory			ividual components. ividual components.
<u>Chronic toxicity</u> Conclusion/Summary		No known sigr effects or critic		or critical hazards.N	Io known significant
<u>Carcinogenicity</u> Product/ingredient name Conclusion/Summary	e Result	Species No known sigr	nificant effects	Dose or critical hazards.	Exposure
Mutagenicity Conclusion/Summary		No known sigr	nificant effects	or critical hazards.	
<u>Teratogenicity</u> Product/ingredient	Result	Spe	cies	Dose	Exposure
	Result	-	nificant effects		Exposure To known significant
Product/ingredient name	Result	No known sigr effects or critic	nificant effects cal hazards. nificant effects	or critical hazards.N	-
Product/ingredient name Conclusion/Summary <u>Reproductive toxicity</u>		No known sign effects or critic No known sign	nificant effects cal hazards. nificant effects	or critical hazards.N	o known significant
Product/ingredient name Conclusion/Summary <u>Reproductive toxicity</u> Conclusion/Summary		No known sigr effects or critic No known sigr effects or critic	hificant effects cal hazards. hificant effects cal hazards.	or critical hazards.N	Io known significant
Product/ingredient name Conclusion/Summary <u>Reproductive toxicity</u> Conclusion/Summary 12.Ecological inform	ation	No known sigr effects or critic No known sigr effects or critic	hificant effects cal hazards. hificant effects cal hazards.	or critical hazards.N or critical hazards.N	Io known significant
Product/ingredient name Conclusion/Summary <u>Reproductive toxicity</u> Conclusion/Summary <u>12.Ecological inform</u> Ecotoxicity	ation	No known sigr effects or critic No known sigr effects or critic No known sig	aificant effects cal hazards. nificant effects cal hazards.	or critical hazards.N or critical hazards.N	Io known significant
Product/ingredient name Conclusion/Summary <u>Reproductive toxicity</u> Conclusion/Summary <u>12.Ecological inform</u> Ecotoxicity <u>Aquatic ecotoxicity</u>	ation :	No known sigr effects or critic No known sigr effects or critic No known sig	aificant effects cal hazards. nificant effects cal hazards.	or critical hazards.N or critical hazards.N	Io known significant
Product/ingredient name Conclusion/Summary Reproductive toxicity Conclusion/Summary 12.Ecological inform Ecotoxicity Aquatic ecotoxicity Conclusion/Summary	ation :	No known sigr effects or critic No known sigr effects or critic No known sig	aificant effects cal hazards. hificant effects cal hazards. gnificant effects	or critical hazards.N or critical hazards.N	Io known significant
Product/ingredient name Conclusion/Summary Conclusion/Summary Reproductive toxicity Conclusion/Summary Ill 12.Ecological inform Ecotoxicity Aquatic ecotoxicity Conclusion/Summary Persistence/degradability Inform	<u>ation</u> : : :	No known sigr effects or critic No known sigr effects or critic No known sig No known sig	aificant effects cal hazards. nificant effects cal hazards. gnificant effects gnificant effects	or critical hazards.N or critical hazards.N s or critical hazards.	Io known significant

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octanol/water 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

<u>Regulatory</u> information	<u>UN no.</u>	Proper shipping name	<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	:	 United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 8(a) - Inventory update rule (IUR): Not determined 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: Carbonic acid calcium salt (1:1): Acu Clean Air Act (CAA) 112 accidental release prevention: No products were found.
United States inventory (TSCA 8b)	:	All components are listed or exempted.
<u>State regulations</u> Massachusetts	:	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	None of the components are listed.
Pennsylvania	:	None of the components are listed.
California Prop. 65	:	Not listed
Report		

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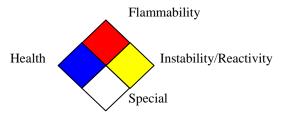
16.Other information

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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