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SAFETY DATA SHEET

House and Garden® MgO 8%



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Product Name Manufacturer	:	MgO 8%		
manufacturer	:	House and Garden Inc. 4700 West End Rd.		
		Arcata, CA 95521		
		USA		
Emergency Phone	:	House and Garden: (707) 382-9636		
		24-hour Poison Control Center: (800) 222-1222		
		24-hour HAZMAT Emergency Response: (888) 255-392		
Recommended Use	:	Liquid plant nutrient concentrate		
Hazard(s) Identificat	ion			
Classifications:				
		irritation or minor reversible injury possible)		
Acute toxicity, Ora				
Acute toxicity, Der	rmal (Cate	gory 5)		
D' (
Pictograms:				
<u>6</u> ?				
Signal word:				
Warning				
Hazard Statements				
Hazard Statements: H303 May be har	mful if sw	allowed		
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H303 May be har		allowed		
H303 May be har	nents:			
H303 May be har Precautionary Staten	nents: reach of c	children		
H303 May be har Precautionary Statem P102 Keep out of P261 Avoid breat	nents: reach of ching mist	children		
H303 May be har Precautionary Statem P102 Keep out of P261 Avoid breat	nents: reach of c hing mist n eyes, on	children or spray skin, or on clothing		
H303 May be har Precautionary Statem P102 Keep out of P261 Avoid breat P262 Do not get i P264 Wash skin t	nents: reach of c hing mist n eyes, on horoughly	children or spray skin, or on clothing		
H303 May be har Precautionary Statem P102 Keep out of P261 Avoid breat P262 Do not get i P264 Wash skin t P280 Wear protec	nents: reach of c hing mist n eyes, on horoughly	children or spray skin, or on clothing after handling		
H303 May be har Precautionary Staten P102 Keep out of P261 Avoid breat P262 Do not get i P264 Wash skin t P280 Wear protec Storage:	nents: reach of c hing mist n eyes, on horoughly trive glove	children or spray skin, or on clothing after handling s, eye protection, and face protection		
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H303 May be har Precautionary Staten P102 Keep out of P261 Avoid breat P262 Do not get i P264 Wash skin t P280 Wear protect Storage: Avoid overheating	nents: reach of c hing mist n eyes, on horoughly trive glove	children or spray skin, or on clothing after handling s, eye protection, and face protection		
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4.	First Aid Measures	
		: Symptoms may include coughing or dyspnoea. Move person to fresh air. If person is not breathing, contact local emergency services and then give artificial respiration. Call a doctor or poison control center for treatment advice.
	Skin	: Symptoms may include skin irritation. Remove contaminated clothing, thoroughly wash exposed area with water and soap for 15 minutes. Call a doctor or poison control center for treatment advice if symptoms persist.
	Eyes	: Irritant. Hold eye open and rinse gently with water for at least 15 minutes, ensuring to flush underneath the eyelids. Call a doctor or poison control center for treatment advice.
	Ingestion	: Gastro-intestinal irritant. Call a doctor or poison control center for immediate treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless advised to do so by a medical professional. Do not give anything by mouth to an unconscious person.
	First Aid Facilities :	Water, wash facilities
5.	Fire Fighting Measures Extinguishing Media	: The product itself is not combustible; in case of fire in its immediate environment, preferred extinguishing media are water spray, foam, CO ₂ ,
	Unsuitable	dry ice.
	Extinguishing Media	: Water jet.
	Hazards from combustion of the product	
	Protective equipment	: In case of fire, wear a self-contained breathing apparatus and eye protection.
6.	Accidental Release Meas	sures
	Emergency Procedures	: Ensure adequate ventilation. Wear safety glasses and appropriate gloves. Chemical-resistant gloves are needed for the sustained contact. Disposable nitrile gloves are adequate for incidental contact (rinse hands after removing gloves). Prevent product from entering sewer drains or surface waters.
	Personal Precautions Containment and Cleanup, Materials, Methods, Procedure	 : Avoid contact with skin and eyes. : Stop the source of the spill. Control the spill using floor dry, absorbent materials booms/socks, or towels. Clean up the spill using absorbent. Disposal subject to all applicable federal, state, and local regulations.
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7.	Handling & Stor	age				
	mucous membran In case of contact Technical precaut	of children. Not for internal es, eyes and gullet. Wear su with skin or eyes, wash imm ions: safety shower and eye ture between 7 and 30 degree	itable protec nediately with shower stati	tive clothin th plenty of ons.	ng.	es. Irritates the skin,
	containers. Store	s: Take all necessary precau the containers on drip trays of sewer or surface water. Avo	or barrier ma	terial to pr	event product f	rom being
8.	Exposure Contro	ol/Personal Protection				
Exposi			OSH	A PEL	А	CGIH TLV
-	old Limits	·	ppm	mg/m ³		3) STEL (mg/m ³)
Thesh		Nitric Acid	2	5	2	4
		Magnesium Sulfate	n/a	n/a	n/a	n/a
Engine		 Ire Limit (a 15-minute, time-four times per day with at least constant in the second second	ast 60 minut r and an eye a working wi hinated cloth	es betweer wash station th the proc ing and rin	n successive exp on. luct in case of i lse skin for 15 r	posure) ncidental exposure. ninutes. Launder
	J	accidental splash or mist.				
	Respiratory	: No special safety equipm appropriate handling metl	nent needed.			
9.	Physical & Chen	nical Properties				
	Appearance Upper flammabili Lower flammabili Odor Vapor Pressure	: Clear colorless fl ty limit : Unavailable	uid			
	Odor Threshold Vapor Density pH	: Unavailable : Unavailable : 2-3	T			
	Relative Density Melting Point Freezing Point Solubility	: 1.28 kg/L at 30% : Unavailable : Unavailable : Fully soluble	~			
	Solubility	. Fully soluble				

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	Flash Point	: Unavailable
	Evaporation Rate	: Unavailable
	Danger of Explosio	n : None.
	Flammability	: n/a
		erature : Material is not self-igniting.
		perature: Unavailable
	Vapor Pressure	: Unavailable
	Viscosity	: Unavailable
	Partition Coefficient	t (n-octanol/water) : Unavailable
10.	Stability & Dogati	njtr
10.	Stability & Reactivit	
		y : No reactivity anticipated. Poses little or no immediate hazard.
	Chemical Stability	: Stable under normal conditions of use and storage. No stabilizers needed.
		Color change is not indicative of any safety issues.
	Conditions to Avoid	d : Do not expose to heat. Temperatures in excess of 200°C may cause
		decomposition and release hazardous nitrate vapors.
	Materials to Avoid	: Metals and alkalis.
	Suitable Materials	: Plastics, PVC
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11.	Toxicological Info	
	Routes of Entry	: Eye, skin contact, inhalation, and ingestion.
	Eyes	: Immediate and delayed irritation, reddening in acute and chronic exposure. Low
	-	pH of mixture will cause burns if eyes not rinsed immediately after exposure.
	Skin	: Immediate and delayed irritation. Long term exposure may cause skin
	Sillin	degradation. Chronic exposure to be avoided.
	Inhalation	: Fumes are not produced in standard environmental storage conditions. Fumes
	IIIIaiau0ii	
		caused by fire contain nitrogen oxides, which are dangerous if inhaled, and
		can result in coughing, dyspnoea, drowsiness, unconsciousness, and death.
	Ingestion	: Acute and chronic ingestion can result in abdominal pain, blue lips, blue
		fingernails, blue skin, convulsions, diarrhea, dizziness, burning sensations,
		vomiting, weakness, shock, collapse, and unconsciousness.
	LD50	: Unavailable
	Carcinogenic	: None of the mixture ingredients are listed on the National Toxicology Program
	Properties	Report on Carcinogens or on the International Agency for Research on Cancer
	Topetties	
		Monographs.
12.	Ecological Information	ation
	Ecotoxicity	: There is no data specific to this product. It is potentially toxic the organisms in
	2	its concentrated form.
	Persistence and	: Inherently biodegradable. Non-persistent.
	Degradability	
		· Mahila in aqueous solutions
	Mobility	: Mobile in aqueous solutions.
	Bioaccumulation	: Chemicals will be held in vegetative material with no toxic effects to livestock or
	Potential	humans.
	Environmental	: Do not release into surface waters. Contamination can cause algae blooms and
	Protection	anoxic conditions, both of which are harmful to aquatic ecosystems.
	Leaching	: Nitrates will leach into the water table.
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13.	Disposal Information
	Soiled containers:Rinse clean with water. Recycle if available.Remainders/unused product:Ensure that disposal is in compliance with all federal, state, and local regulations.
14.	Transport Information
	Shipping Information: House and Garden MgO 8%Harmonized System Commodity classification Code: 310590Commodity Classification Standards Board: Code 70, non-hazardous
15.	Regulatory Information
	OSHA Hazards Nitric Acid
	OSHA Designated Carcinogens None of the ingredients are listed.
	TSCA (Toxic Substances Control Act) None of the ingredients are listed.
	USDOT Hazardous Materials None of the ingredients are listed.
	EPA (List of Lists)/ SARA Nitric Acid
	NIOSH None of the ingredients are listed.
16.	Other Information
	The information provided in this Safety Data Sheet is to our best knowledge and belief, accurate and reliable as of the date compiled. However, no warranty or guarantee is made in this respect. It remains the user's responsibility to ensure the suitability and completeness of this information for a particular application. House and Garden Inc. does not accept liability for any damage or loss that may arise from the use of this information.
	Last Modified: 12/18/2017 for conversion to SDS