SAFETY DATA SHEET

1. Identification

Product identifier	Monterey Iron Combo 1-0-	-2	
Other means of identification			
Product code	45001		
Recommended use	Agricultural/ Horticultural Us	se- Micronutrient Fertilizer- Refer to product label.	
Recommended restrictions	Refer to product label.		
Manufacturer/Importer/Supplier	Manufacturer/Importer/Supplier/Distributor information		
Manufacturer			
Company name	Lawn and Garden Products	, Inc.	
Address	PO Box 35000		
	Fresno, CA 93745		
Telephone	559-499-2100		
Website	www.montereylawngarden.e	com	
E-mail	info@montereylawngarden.	com	
Emergency phone number	CHEMTREC (24 hours): USA, Canada, Puerto Rico	1-800-424-9300	
	Virgin Islands International Maritime	1-800-424-9300 +1 (703) 527-3887	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Reproductive toxicity	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Warning
Hazard statement	Suspected of damaging fertility or the unborn child.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Copper Amino Acid Complex		13479-54-4	< 1*
Disodium Octaborate Tetrahydrate		12008-41-2	< 1*
Other components below reportable levels			90 - 100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Limit Values				
Components	Туре	Value	Form	
Copper Amino Acid Complex (CAS 13479-54-4)	TWA	1 mg/m3	Dust and mist.	

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
		0.2 mg/m3	Fume.
Disodium Octaborate Tetrahydrate (CAS 12008-41-2)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Components	Туре	Value	Form
Copper Amino Acid Complex (CAS 13479-54-4)	TWA	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
ological limit values	No biological exposure limits noted for the ingredient(s).		
propriate engineering ntrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
lividual protection measures,	such as personal protective equipme	nt	
Eye/face protection	Chemical respirator with organic vapor	cartridge and full facepiece.	
Skin protection Hand protection	Wear appropriate chemical resistant gl	oves.	
Other	Use of an impervious apron is recomm	ended.	
Respiratory protection	Chemical respirator with organic vapor	cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective cl	othing, when necessary.	
neral hygiene nsiderations	Observe any medical surveillance requi measures, such as washing after hand smoking. Routinely wash work clothing	lling the material and before e	ating, drinking, and/or

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	3
Melting point/freezing point	1952.6 °F (1067 °C) estimated
Initial boiling point and boiling range	3072.2 °F (1689 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00001 hPa estimated
Vapor density	Not available.
Relative density	1.474 g/cm3 (typical)

Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	68.3 % estimated
Pounds per gallon	12.3 lb/gal (typical)
10. Stability and reactivity	,
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Not known.	
Product	Species	Test Results
Monterey Iron Combo 1-0-2		
Acute		
Dermal		
LD50	Rat	40000 mg/kg
Oral		
LD50	Rat	40000 mg/kg
Components	Species	Test Results
Disodium Octaborate Tetrahydr	rate (CAS 12008-41-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	2550 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	

Respiratory or skin sensitizatior	1
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
IARC Monographs. Overall I	Evaluation of Carcinogenicity
Not listed.	
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1053)
Not listed.	
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens
Not listed.	
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
Monterey Iron Combo 1-0-2			
Aquatic			
Fish	LC50	Fish	41666.668 mg/l, 96 hours estimated
Components		Species	Test Results
Disodium Octaborate Tetrah	ydrate (CAS	12008-41-2)	
Aquatic			
Acute			
Crustacea	LC50	Daphnia magna	619 mg/l
Fish	LC50	Pimephales promelas	370 mg/l
rsistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
oaccumulative potential	No data available.		
obility in soil	No data available.		
her adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
3. Disposal consideration	ons		
sposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.		
cal disposal regulations	Dispose ir	Dispose in accordance with all applicable regulations.	
zardous waste code	The waste disposal c	•	on between the user, the producer and the was

Waste from residues / unused
productsDispose of in accordance with local regulations. Empty containers or liners may retain some
product residues. This material and its container must be disposed of in a safe manner (see:
Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is
emptied. Empty containers should be taken to an approved waste handling site for recycling or

14. Transport information

DOT

Not regulated as dangerous goods.

disposal.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

15. Regulatory mormation				
US federal regulations	This product is a "Hazar Standard, 29 CFR 1910		efined by the OSHA Hazard	I Communication
Toxic Substances Control A	ct (TSCA)			
TSCA Section 12(b) Exp	ort Notification (40 CFR	2 707, Subpt. D)		
Not regulated.				
CERCLA Hazardous Substar	nce List (40 CFR 302.4)			
Copper Amino Acid Comp SARA 304 Emergency releas		Listed.		
Not regulated. OSHA Specifically Regulated Not listed.	l Substances (29 CFR 1	910.1001-1053)		
Superfund Amendments and Rea	authorization Act of 198	G (SARA)		
SARA 302 Extremely hazard		0 (JARA)		
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Reproductive toxicity			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Copper Amino Acid Comp	lex	13479-54-4	< 1	
Other federal regulations				
Clean Air Act (CAA) Section	112 Hazardous Air Poll	utants (HAPs) List		
Not regulated				
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Relea	se Prevention (40 C	FR 68.130)	
5	112(r) Accidental Relea	se Prevention (40 C	FR 68.130)	
Clean Air Act (CAA) Section			FR 68.130) Safe Drinking Water Act.	
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act				
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA)				
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations	Contains component(s) can expose you to chemic ate of California to cause	regulated under the S cals including arsenic, cancer and birth defe	Safe Drinking Water Act. cadmium, and lead,	
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 WARNING: This product of which are known to the St harm. For more information	Contains component(s) can expose you to chemic ate of California to cause in go to www.P65Warning	regulated under the S cals including arsenic, cancer and birth defe gs.ca.gov.	Safe Drinking Water Act. cadmium, and lead,	Regs, tit. 22, 69502.3,
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 WARNING: This product of which are known to the St harm. For more information US. California. Candidate subd. (a))	Contains component(s) can expose you to chemic ate of California to cause in go to www.P65Warning e Chemicals List. Safer	regulated under the S cals including arsenic, cancer and birth defe gs.ca.gov. Consumer Products	Safe Drinking Water Act. cadmium, and lead, ects or other reproductive	Regs, tit. 22, 69502.3,
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 WARNING: This product of which are known to the St harm. For more information US. California. Candidate subd. (a))	Contains component(s) can expose you to chemic ate of California to cause in go to www.P65Warning	regulated under the S cals including arsenic, cancer and birth defe gs.ca.gov. Consumer Products	Safe Drinking Water Act. cadmium, and lead, ects or other reproductive	Regs, tit. 22, 69502.3,
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 WARNING: This product of which are known to the St harm. For more information US. California. Candidate subd. (a)) Disodium Octaborate	Contains component(s) can expose you to chemic ate of California to cause in go to www.P65Warning e Chemicals List. Safer Tetrahydrate (CAS 1200	regulated under the S cals including arsenic, cancer and birth defe gs.ca.gov. Consumer Products	Safe Drinking Water Act. cadmium, and lead, ects or other reproductive	-
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 WARNING: This product of which are known to the St harm. For more information US. California. Candidate subd. (a)) Disodium Octaborate	Contains component(s) can expose you to chemic ate of California to cause in go to www.P65Warning e Chemicals List. Safer Tetrahydrate (CAS 1200 Inventory name	regulated under the S cals including arsenic, cancer and birth defe gs.ca.gov. Consumer Products 8-41-2)	Safe Drinking Water Act. cadmium, and lead, acts or other reproductive Regulations (Cal. Code I	Regs, tit. 22, 69502.3, On inventory (yes/no)* No
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 WARNING: This product of which are known to the St harm. For more information US. California. Candidat subd. (a)) Disodium Octaborate International Inventories Country(s) or region	Contains component(s) can expose you to chemic ate of California to cause in go to www.P65Warning e Chemicals List. Safer Tetrahydrate (CAS 1200 Inventory name Australian Inventory of 0	regulated under the S cals including arsenic, cancer and birth defe gs.ca.gov. Consumer Products 8-41-2) Chemical Substances	Safe Drinking Water Act. cadmium, and lead, acts or other reproductive Regulations (Cal. Code I	On inventory (yes/no)*
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 WARNING: This product of which are known to the St harm. For more information US. California. Candidate subd. (a)) Disodium Octaborate International Inventories Country(s) or region Australia	Contains component(s) can expose you to chemic ate of California to cause in go to www.P65Warning e Chemicals List. Safer Tetrahydrate (CAS 1200 Inventory name	regulated under the S cals including arsenic, cancer and birth defe gs.ca.gov. Consumer Products 8-41-2) Chemical Substances ist (DSL)	Safe Drinking Water Act. cadmium, and lead, acts or other reproductive Regulations (Cal. Code I	On inventory (yes/no) * No
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 WARNING: This product of which are known to the St harm. For more information US. California. Candidate subd. (a)) Disodium Octaborate International Inventories Country(s) or region Australia Canada	Contains component(s) can expose you to chemic ate of California to cause in go to www.P65Warning e Chemicals List. Safer Tetrahydrate (CAS 1200 Inventory name Australian Inventory of 0 Domestic Substances L	regulated under the S cals including arsenic, cancer and birth defe gs.ca.gov. Consumer Products 8-41-2) Chemical Substances ist (DSL) ces List (NDSL)	Safe Drinking Water Act. cadmium, and lead, acts or other reproductive Regulations (Cal. Code I	On inventory (yes/no) * No No
Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations California Proposition 65 WARNING: This product of which are known to the St harm. For more informatio US. California. Candidat subd. (a)) Disodium Octaborate International Inventories Country(s) or region Australia Canada Canada	Contains component(s) can expose you to chemic ate of California to cause in go to www.P65Warning e Chemicals List. Safer Tetrahydrate (CAS 1200 Inventory name Australian Inventory of 0 Domestic Substances L Non-Domestic Substance	regulated under the S cals including arsenic, cancer and birth defe gs.ca.gov. Consumer Products 8-41-2) Chemical Substances ist (DSL) ces List (NDSL) memical Substances in	Safe Drinking Water Act. cadmium, and lead, ects or other reproductive Regulations (Cal. Code I (AICS) China (IECSC)	On inventory (yes/no)* No No No
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Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date Revision date Version #	12-23-2019 12-30-2019 02
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product to determine suitability of the Product for user's particular use.
Revision information	Product and Company Identification: Product and Company Identification