SAFETY DATA SHEET

1. Identification

Product identifier	Dr. Iron Liquid 15-0-0		
Other means of identification			
Product code	32011LAG		
Recommended use	Agricultural/ Horticultural Use- Mice	cronutrient Fe	ertilizer- Refer to product label.
Recommended restrictions	Refer to product label.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Lawn and Garden Products, Inc.		
Address	PO Box 35000		
Talanhana	Fresno, CA 93745	-559-994-91	
Telephone Website	Emergency Contact Number 1- www.montereylawngarden.com	-009-994-91	44
E-mail	info@montereylawngarden.com		
Emergency phone number	CHEMTREC (24 hours):		
	, ,	-800-424-93	
	3	-800-424-93	
	international Mantime +1	1 (703) 527-	3007
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irritation		Category 1
	Specific target organ toxicity, single	le exposure	Category 3 respiratory tract irritation
Environmental hazards	Hazardous to the aquatic environm	ment, acute	Category 3

	opeoine target organ toxicity, single expectate	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Causes skin irritation. Causes serious eye dar	nage. May cause respiratory irritation. Harmful to

	aquatic life. Harmful to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.	
Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.	
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Urea		57-13-6	30 - < 40
FERROUS SULFATE		7782-63-0	20 - < 30
Sulfuric Acid		7664-93-9	1 - < 3*
Other components below reportable levels			30 - < 40

Other components below reportable levels

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

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain.
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 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.

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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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	Prevent product from entering drains.
	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.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	
Sulfuric Acid (CAS 7664-93-9)	PEL	1 mg/m3	
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Sulfuric Acid (CAS 7664-93-9)	TWA	1 mg/m3	
US. AIHA Workplace Envi	ronmental Exposure Level (WEEL) Guides	6	
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
ological limit values	No biological exposure limits noted for th	e ingredient(s).	
ntrols	should be matched to conditions. If appli- or other engineering controls to maintain exposure limits have not been establishe wash facilities and emergency shower m s, such as personal protective equipment	airborne levels below reco d, maintain airborne levels ust be available when hand	mmended exposure limits. to an acceptable level. Eye
Eye/face protection	Wear safety glasses with side shields (or		J.
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Other	Wear appropriate chemical resistant clot	hing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective cloth	Wear appropriate thermal protective clothing, when necessary.	
neral hygiene nsiderations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
Physical and chemica	l properties		
pearance	Liquid.		
Physical state	Liquid.		
Form	Liquid.		

Color

Odor

Translucent Green

Rust-Like

Not available.
Not available.
Not available.
olosive limits
Not available.
Not available.
Not available.
Not available.
0.00001 hPa estimated
Not available.
1.33 g/cm ³ (typical)
Not available.
Not explosive.
Not oxidizing.
39.27 % estimated
11.1 lb/gal (typical)
15.98 % estimated

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	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	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

May cause respiratory irritation.

Product	Species	Test Results
Dr. Iron Liquid 15-0-0		
Acute		
Dermal		
LD50	Sprague-Dawley rat	6667 mg/kg, 14 days estimated
Inhalation		
LC50	Guinea pig	0.7743 mg/l, 8 Hours estimated
	Mouse	34 mg/kg, 4 hours estimated
	Rat	14927 mg/l, 1 Hours estimated
		15 mg/kg, 4 hours estimated
Oral		
LD50	Mouse	5537 mg/kg estimated
	Rat	15999 mg/kg estimated
	Sheep	89170 mg/kg estimated
	Sprague-Dawley rat	6667 mg/kg, 14 days estimated
Components	Species	Test Results
Sulfuric Acid (CAS 7664-93-9)		
<u>Acute</u>		
Inhalation		
LC50	Guinea pig	0.018 mg/l, 8 Hours
	Rat	347 mg/l, 1 Hours
Oral LD50	Det	2140 mg/kg
Urea (CAS 57-13-6)	Rat	2140 mg/kg
<u>Acute</u>		
Oral		
LD50	Rat	8471 mg/kg
	Sheep	28500 mg/kg
* Estimates for product may b	e based on additional component data not show	wn.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitization	n	
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 c mutagenic or genotoxic.	components present at greater than 0.1% are
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not regulated.	ed Substances (29 CFR 1910.1001-1050)	ic to humans.
Sulfuric Acid (CAS 7664-	ogram (NTP) Report on Carcinogens	e Human Carcinogen.
Reproductive toxicity	This product is not expected to cause reprodu	-
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	

Chronic effects

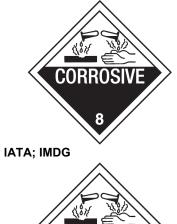
12. Ecological information

otoxicity		aquatic life with long lasting effects.		
Product		Species	Test Results	
Dr. Iron Liquid 15-0-0				
Aquatic				
Crustacea	EC50	Daphnia	371.0078 mg/l, 48 hours estimated	
Fish	LC50	Fish	143.3208 mg/l, 96 hours estimated	
Components		Species	Test Results	
Sulfuric Acid (CAS 7664-93	8-9)			
Aquatic				
Fish	LC50	Western mosquitofish (Gambusia affini	s) 42 mg/l, 96 hours	
Urea (CAS 57-13-6)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	3910 mg/l, 48 hours	
Fish	LC50	Carp (Leuciscus idus melanotus)	> 10000 mg/l, 48 hours	
		Guppy (Poecilia reticulata)	16200 - 18300 mg/l, 96 hours	
		Harlequinfish, red rasbora (Rasbora heteromorpha)	12000 mg/l, 96 hours	
		Mozambique tilapia (Tilapia mossambica)	590 - 730 mg/l, 96 hours	
Partition coefficient n-oct Urea		-2.11		
bility in soil	No data av	ailable.		
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.		
. Disposal considerati	ions			
sposal instructions	this materia with chemic	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
cal disposal regulations	Dispose in	Dispose in accordance with all applicable regulations.		
zardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
aste from residues / unused oducts		Dispose 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).		
		idues. This material and its container must	be disposed of in a safe manner (see:	
ntaminated packaging	Disposal in Since empt	idues. This material and its container must	follow label warnings even after container	
ntaminated packaging . Transport informatic	Disposal in Since empt emptied. E disposal.	idues. This material and its container must structions). tied containers may retain product residue, t	follow label warnings even after container	
	Disposal in Since empt emptied. E disposal.	idues. This material and its container must structions). tied containers may retain product residue, t	follow label warnings even after container	

Corrosive liquids, n.o.s. (Sulfuric Acid RQ = 43103 LBS)
8
-
8
III

Special precautions for user Special provisions Packaging exceptions Packaging non bulk Packaging bulk IATA	Read safety instructions, SDS and emergency procedures before handling. A6, A7, B10, T14, TP2, TP27 None 201 243
UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (Sulfuric Acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Environmental hazards	No.
	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (Sulfuric Acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

DOT





15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

• •	
Listed.	
Listed.	

OSUA Specifically Begula	1-93-9) Ind Substance	- (20 CED 1010	1000 LBS		
OSHA Specifically Regulated.	ted Substance	S (29 CFR 1910	0.1001-1050)		
uperfund Amendments and F	Poputhorizatio	n Act of 1986 (9	SARA)		
Hazard categories		Hazard - Yes azard - No I - No azard - No			
SARA 302 Extremely haza	rdous substar	ice			
Chemical name C	AS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Sulfuric Acid 7	664-93-9	1000	1000 lbs		
SARA 311/312 Hazardous chemical	No				
SARA 313 (TRI reporting) Chemical name		C	AS number	% by wt.	
Sulfuric Acid		76	64-93-9	1 - < 3	
ther federal regulations					
Clean Air Act (CAA) Section	on 112 Hazardo	ous Air Polluta	nts (HAPs) List		
Not regulated. Clean Air Act (CAA) Section	on 112(r) Accio			8.130)	
Sulfuric Acid (CAS 7664	1-93-9)				
Cofe Dubelstern Mit 4 A. 4					
Safe Drinking Water Act (SDWA)	Not regulate	ed.			
(SDWA)	ministration (I		sential Chemicals (21	I CFR 1310.02(b) and 1	310.04(f)(2) and
(SDWA) Drug Enforcement Ad Chemical Code Numb Sulfuric Acid (CAS	ministration (I er 7664-93-9)	DEA). List 2, Es	6552	I CFR 1310.02(b) and 1 ixtures (21 CFR 1310.1	
(SDWA) Drug Enforcement Ad Chemical Code Numb Sulfuric Acid (CAS	ministration (I er 7664-93-9) ministration (I 7664-93-9)	DEA). List 2, Es DEA). List 1 & 2	6552		
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(SDWA) Drug Enforcement Ad Chemical Code Numb Sulfuric Acid (CAS Drug Enforcement Ad Sulfuric Acid (CAS DEA Exempt Chemica Sulfuric Acid (CAS S state regulations US. California Controlled S Not listed. US. California. Candidate ((a)) Sulfuric Acid (CAS 7664 US. Massachusetts RTK - FERROUS SULFATE (Sulfuric Acid (CAS 7664 US. New Jersey Worker ar Sulfuric Acid (CAS 7664 US. New Jersey Worker ar Sulfuric Acid (CAS 7664 US. Pennsylvania Worker FERROUS SULFATE (Sulfuric Acid (CAS 7664 US. Rhode Island RTK FERROUS SULFATE (Sulfuric Acid (CAS 7664 US. Rhode Island RTK	ministration (I er 7664-93-9) ministration (I 7664-93-9) I Mixtures Coo 7664-93-9) Substances. C Chemicals Lis (-93-9) Substance Lis CAS 7782-63-0 (-93-9) and Community (-93-9) CAS 7782-63-0 (-93-9) CAS 7782-63-0 (-93-9) CAS 7782-63-0 (-93-9) CAS 7782-63-0 (-93-9) CAS 7782-63-0 (-93-9) CAS 7782-63-0	DEA). List 2, Es DEA). List 1 & 2 de Number A Department of t. Safer Consur (t)) Right-to-Know ty Right-to-Know ()) emical known to	6552 Exempt Chemical Mi 20 %WV 6552 of Justice (California mer Products Regulat Act bw Law	ixtures (21 CFR 1310.1 Health and Safety Cod tions (Cal. Code Regs,	2(c)) le Section 11100) tit. 22, 69502.3, subd.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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	11-03-2016
Version #	01
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, and Manufacturer recommends that the user conducts its owns tests of the Product to determine suitability of the Product for user's particular use.