## SAFETY DATA SHEET

## 1. Identification

Product identifier	Monterey Pasture Fertilizer	18-2-2
Other means of identification		
Product code	45012	
Recommended use	Agricultural/ Horticultural Use-	Micronutrient Fertilizer- Refer to product label.
<b>Recommended restrictions</b>	Refer to product label.	
Manufacturer/Importer/Supplier	/Distributor information	
Manufacturer		
Company name	Lawn and Garden Products, Ir	IC.
Address	PO Box 35000	
	Fresno, CA 93745	
Telephone	559-499-2100	
Website	www.montereylawngarden.cor	n
E-mail	info@montereylawngarden.co	m
Emergency phone number	CHEMTREC (24 hours): USA, Canada, Puerto Rico Virgin Islands International Maritime	1-800-424-9300 1-800-424-9300 +1 (703) 527-3887

## 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2A
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Warning
Hazard statement	Causes serious eye irritation.
Precautionary statement	
Prevention	Wash thoroughly after handling. Wear eye protection/face protection.
Response	If eye irritation persists: Get medical advice/attention.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
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	%
Urea		57-13-6	20 - < 30*
Ammonium Nitrate		6484-52-2	10 - < 20*
Other components below r	eportable levels		50 - < 60

\*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	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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.
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	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 entry into waterways, sewer, basements or confined areas. 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	Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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**

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides			
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
Biological limit values	No biological exposure limits noted for	or the ingredient(s).	

Appropriate engineering controls	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. Provide eyewash station.
Individual protection measure	s, such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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.

## 9. Physical and chemical properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Green
Odor	Slight.
Odor threshold	Not available.
рН	2.5
Melting point/freezing point	270.86 °F (132.7 °C) estimated
Initial boiling point and boiling range	392 °F (200 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive 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	1.298 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	33.99 % estimated
Pounds per gallon	10.83 lb/gal (typical)

#### voc

#### 11.66 % 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	Hazardous polymerization does not occur.
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	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
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.

#### Information on toxicological effects

Monterey Pasture Fertilizer 18-2-2     Acute   inhalation     LC50   Rat   252 mg/l, 4 Hours estimated     Oral   25999 mg/kg, 14 days estimated     LD50   Rat   2999 mg/kg, 14 days estimated     Oral   2999 mg/kg, 14 days estimated     Sheep   77928 mg/kg estimated     Components   Species   Test Results     Ammonium Nitrate (CAS 6484-52-2)       Acute   Inhalation       LC50   Rat   > 88.8 mg/l, 4 Hours     Oral   2217 mg/kg      Urea (CAS 57-13-6)   Rat   2217 mg/kg     Urea (CAS 57-13-6)   Rat   8471 mg/kg     LD50   Rat   8471 mg/kg     LD50   Rat   8471 mg/kg     LD50   Rat   84500 mg/kg	Acute toxicity			
Acute Inhalation   LG50 Rat 252 mg/l, 4 Hours estimated   Oral 2999 mg/kg, 14 days estimated   LD50 Rat 2999 mg/kg, 14 days estimated   D50 Rat 2999 mg/kg, 14 days estimated   Comports Sheep 7928 mg/kg estimated   Acute Test Results 7928 mg/kg estimated   Inhalation Rat 88.8 mg/l, 4 Hours   LC50 Rat 217 mg/kg   Urea (CAS 57-13-6) Rat 217 mg/kg   LD50 Rat 8471 mg/kg   LD50 Rat 8471 mg/kg   Oral Sheep 26500 mg/kg   LD50 Rat 8471 mg/kg   D50 Rat 8471 mg/kg   Sheep 26500 mg/kg 120 mg/kg   * Estimates for product may beso on additional component data not show. Stord mg/kg   Sheep Cause serious eye irritation. Stord mg/kg   Sheep Cause serious eye irritation. Stord mg/kg   Bespiratory sensitization Not a respiratory sensitizer. Stord mg/kg	Product	Species Test Results		
Inhalation LC50 Rat 252 mg/l, 4 Hours estimated   Oral 2999 mg/kg, 14 days estimated   LD50 Rat 2999 mg/kg, 14 days estimated   Comore Sheep 77928 mg/kg estimated   Comore Species Test Results   Acute Inhalation Edite   Inhalation Kata 2217 mg/kg   LC50 Rat 2217 mg/kg   Oral Edite 2117 mg/kg   LD50 Rat 2117 mg/kg   Urea (CAS 57-13-6) Kata 8471 mg/kg   Acute Sheep 28500 mg/kg   Oral Sheep 28500 mg/kg   LD50 Rat 8471 mg/kg   D50 Rat 8471 mg/kg   Voral Sheep 28500 mg/kg   LD50 Rats 8471 mg/kg   Sheep 28500 mg/kg Sheep   * Estimates for product may be serious eye irritation. Sheep Sheep   * serious eye amage/eye Causes serious eye irritation. Sheep Sheep   Strictory or skin sensitization Not a respiratory sensitizer. Sheep<	Monterey Pasture Fertilizer 18-2-2	2		
Instant Rat 252 mg/l, 4 Hours estimated   Oral 2999 mg/kg, 14 days estimated   LD50 Rat 2999 mg/kg, 14 days estimated   Comports Sheep 77928 mg/kg estimated   Comports Species Test Results   Acute Inhalation Rat 88.8 mg/l, 4 Hours   LC50 Rat 2817 mg/kg State   Oral ILD50 Rat 2217 mg/kg   LD50 Rat 2217 mg/kg State   Urea (CAS 57-13-6) Kat 2217 mg/kg State   Acute Sheep 28500 mg/kg State   Oral Sheep 28500 mg/kg State   LD50 Rat State State   Sheep 28500 mg/kg State State   '* Estimates for product may best on additional component data not shown. State State State   '* Estimates for product may cause etemporary irritation Prolonged skin contact may cause temporary irritation State State   '* Targe spraitory sensitization Not a respiratory sensitizer. State State   '* Bespiratory sensiti	Acute			
Oral Rat 2999 mg/kg, 14 days estimated   LD50 Rat 2999 mg/kg, 14 days estimated   Comporents Species Test Results   Ammonium Nitrate (CAS 6484-52-2) Acute Inhalation   LC50 Rat > 88.8 mg/l, 4 Hours   Oral LC50 Rat 2217 mg/kg   Urea (CAS 57-13-6) Rat 2217 mg/kg   Acute Oral E   D50 Rat 8471 mg/kg   D50 Rat 8471 mg/kg   LD50 Rat 8471 mg/kg   Sheep 28500 mg/kg   * Estimates for product may based on additional component data not shown. State serious eye damage/eye   * Estimates for product may bases evinue evinitation. Causes serious eye irritation.   ritration Prolonged skin contact may cause temporary irritation.   Respiratory or skin sensitization Not a respiratory sensitizet	Inhalation			
LD50Rat2999 mg/kg, 14 days estimatedSheep7928 mg/kg estimatedComportsSpeciesAcute Inhalation LC50RatOral LD50RatLD50RatVera (CAS 57-13-6)Acute Oral LD50RatAcute Oral LD50RatVera (CAS 57-13-6)Acute Oral LD50RatSheepSheepAcute Oral LD50No ral LD50RatSheepSheepAcute Oral LD50SheepSheepNo ral Serious eye irritation* Estimates for product may best-set on additional component data not shown.Skin corros ion/irritation irritationRespiratory sensitizationRespiratory sensitizationNot a respiratory sensitization	LC50	Rat	252 mg/l, 4 Hours estimated	
Sheep 77928 mg/kg estimated   Components Species Test Results   Ammonium Nitrate (CAS 6484-52-2) Imalation Imalation   Acute Imalation Second Second   LC50 Rat > 88.8 mg/l, 4 Hours Oral   LD50 Rat 2217 mg/kg Imalation   Urea (CAS 57-13-6) Rat 2217 mg/kg Imalation   Acute Ket Sheep 28500 mg/kg SecondSe	Oral			
Components Species Test Results   Ammonium Nitrate (CAS 6484-52-2) Acute Inhalation   Inhalation Inhalation > 88.8 mg/l, 4 Hours   LC50 Rat > 88.8 mg/l, 4 Hours   Oral Information 2217 mg/kg   Urea (CAS 57-13-6) Rat 2217 mg/kg   Acute Oral Sheep 28500 mg/kg   * Estimates for product may be used on additional component data not shown. Sheep 28500 mg/kg   * Estimates for product may be used on additional component data not shown. Causes serious eye irritation. Sheep   Serious eye damage/eye Causes serious eye irritation. Causes serious eye irritation. Sheep   Respiratory or skin sensitization Not a respiratory sensitizer. Viol ar respiratory sensitizer. Viol ar respiratory sensitizer.	LD50	Rat	2999 mg/kg, 14 days estimated	
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Oral LD50Rat2217 mg/kgUrea (CAS 57-13-6)Acute Oral LD50Rat8471 mg/kgD50Rat Sheep8471 mg/kg* Estimates for product may based on additional component data not shown.Skin corrosion/irritationProlonged skin contact may cause temporary irritation.Skin corrosion/irritationProlonged skin contact may cause temporary irritation.Serious eye damage/eye irritationCauses serious eye irritation.Respiratory or skin sensitizationNot a respiratory sensitizer.Kensitizer.Kensitizer.				
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Urea (CAS 57-13-6)     Acute     Oral     LD50   Rat     Sheep   28500 mg/kg     * Estimates for product may be based on additional component data not shown.     Skin corrosion/irritation   Prolonged skin contact may cause temporary irritation.     Serious eye damage/eye   Causes serious eye irritation.     irritation   Respiratory or skin sensitization     Respiratory sensitization   Not a respiratory sensitizer.	Oral			
Acute Oral Rat 8471 mg/kg   LD50 Rat 28500 mg/kg   * Estimates for product may be sed on additional component data not shown. 28500 mg/kg   * Estimates for product may be sed on additional component data not shown. Value   Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.   Serious eye damage/eye irritation Causes serious eye irritation.   Respiratory or skin sensitization. Value sensitizer.	LD50	Rat	2217 mg/kg	
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Sheep 28500 mg/kg   * Estimates for product may be based on additional component data not shown.   Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.   Serious eye damage/eye Causes serious eye irritation.   irritation Respiratory or skin sensitization   Not a respiratory sensitization Not a respiratory sensitizer.	Oral			
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Serious eye damage/eye Causes serious eye irritation.   irritation Respiratory or skin sensitization   Respiratory sensitization Not a respiratory sensitizer.	Skin corrosion/irritation	-	n.	
<b>Respiratory sensitization</b> Not a respiratory sensitizer.				
	Respiratory or skin sensitizatio	n		
Skin sensitization This product is not expected to cause skin sensitization.	<b>Respiratory sensitization</b>	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	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed.		
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1050)	
Not regulated.		
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
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 Pasture Fert	ilizer 18-2-2			
Aquatic				
Crustacea	EC50	Daphnia	21768.1016 mg/l, 48 hours estimated	
Fish	LC50	Fish	24893.8066 mg/l, 96 hours estimated	
Components		Species	Test Results	
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	
* Estimates for product	t may be based on	additional component data not shown.		
sistence and degrada	bility No data is	s available on the degradability of this produc	ot.	
accumulative potentia	al			
Partition coefficient r	n-octanol / water (	•		
Urea		-2.11		

Mobility in soil	No data available.
Other 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.

#### 13. Disposal considerations

Disposal 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.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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).

Since 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 disposal.

#### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### 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)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

# SARA 311/312 Hazardous No chemical

## SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

#### (SDWA)

#### US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. Massachusetts RTK Substance List

Ammonium Nitrate (CAS 6484-52-2)

- US. New Jersey Worker and Community Right-to-Know Act
  - Ammonium Nitrate (CAS 6484-52-2)
- US. Pennsylvania Worker and Community Right-to-Know Law

Ammonium Nitrate (CAS 6484-52-2)

#### US. Rhode Island RTK

Ammonium Nitrate (CAS 6484-52-2)

#### US. California Proposition 65

**WARNING**: This product can expose you to chemicals including arsenic, cadmium, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### 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)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
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 Revision date Version #	08-17-2017 11-16-2017 03
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.
Revision information	Physical & Chemical Properties: Multiple Properties Regulatory information: California Prop 65