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Version 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier.

**Product Name** Liquid Lawn & Pasture Fertilizer 20-0-0

### Other means of identification

**Product Code** PBI FP 7471122

**Product Size** 2/2.5 U. S. Gal.

### Recommended use of the chemical and restrictions on use

**Recommended Use** Fertilizers

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### Company Name

PBI-Gordon Corporation  
P.O. Box 860350  
Shawnee, KS 66286

### Emergency telephone number

**24 Hour Emergency Phone Number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                    |             |
|------------------------------------|-------------|
| Skin Corrosion/Irritation Category | Category 2  |
| Serious eye damage/eye irritation  | Category 2A |
| Carcinogenicity                    | Category 1B |
| Acute Aquatic Toxicity             | Category 3  |
| Chronic Aquatic Toxicity           | Category 3  |

### Label elements

#### **Emergency Overview**

#### **Signal word**

Danger

#### **Hazard statements**

- Causes skin irritation
- Causes serious eye irritation
- May cause cancer
- Harmful to aquatic life with long lasting effects



**Appearance** Clear liquid

**Physical state** Liquid

**Odor** Slight Ammonia

### Precautionary Statements - 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  
Wash face, hands and any exposed skin thoroughly after handling

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
IF ON SKIN: Wash with plenty of water and soap  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash it before reuse

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

Not applicable.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

Not applicable.

**Mixture**

| <b>Chemical name</b> | <b>CAS-No</b> | <b>Weight-%</b> |
|----------------------|---------------|-----------------|
| Ammonium nitrate     | 6484-52-2     | 27.43           |
| Urea                 | 57-13-6       | 20.82           |
| Ammonium hydroxide   | 1336-21-6     | 1               |

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

### **4. FIRST AID MEASURES**

**Description of first aid measures**

|                                           |                                                                                                                                                                                                                                       |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.                                                                                                                       |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician. |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.                                                                                                |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.                                                                                                                                                             |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.                                                                         |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).                                                                                                                                         |

**Most important symptoms and effects, both acute and delayed**

Symptoms No information available.

**Indication of any immediate medical attention and special treatment needed**

Note to physicians Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical** In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**Special protective equipment for fire-fighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information Avoid release to the environment  
Dispose of contents/container to an approved waste disposal plant

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Keep out of the reach of children. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Limits**

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Chemical resistant gloves.

**Skin and body protection** Wear long-sleeved shirt, long pants, socks and shoes.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state** Liquid  
**Appearance** Clear liquid  
**Color** Blue  
**Odor** Slight Ammonia  
**Odor threshold** No information available

| <b><u>Property</u></b>               | <b><u>Values</u></b> | <b><u>Remarks • Method</u></b> |
|--------------------------------------|----------------------|--------------------------------|
| <b>pH</b>                            | 6-9                  |                                |
| <b>Melting point/freezing point</b>  | <35 °F               |                                |
| <b>Boiling point / boiling range</b> | 104 °C / 219 °F      |                                |
| <b>Flash point</b>                   | > 97 °C / 207 °F     |                                |
| <b>Evaporation rate</b>              | < 1                  |                                |
| <b>Flammability (solid, gas)</b>     | No data available    | None known                     |
| <b>Flammability Limit in Air</b>     |                      | None known                     |
| <b>Upper flammability limit:</b>     | No data available    |                                |
| <b>Lower flammability limit:</b>     | No data available    |                                |
| <b>Vapor pressure</b>                | No data available    | None known                     |
| <b>Vapor density</b>                 | >1                   |                                |
| <b>Specific Gravity</b>              | 1.199                |                                |
| <b>Water solubility</b>              | Soluble in water     |                                |
| <b>Solubility in other solvents</b>  | No data available    | None known                     |
| <b>Partition coefficient</b>         | No data available    | None known                     |
| <b>Autoignition temperature</b>      | No data available    | None known                     |
| <b>Decomposition temperature</b>     | No data available    | None known                     |

**Other Information**

**Oxidizing properties** No information available  
**Liquid Density** 10.0 pounds/gallon  
**Bulk density** No information available

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available.

### Stability

Stable

### Possibility of hazardous reactions

None under normal processing.

### Hazardous polymerization

Will not occur.

### Conditions to avoid

Keep out of reach of children.

### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### Hazardous decomposition products

May emit toxic fumes under fire conditions. Ammonia. Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.                                      |
| <b>Eye contact</b>  | Irritating to eyes. Causes serious eye irritation.                              |
| <b>Skin contact</b> | Causes skin irritation.                                                         |
| <b>Ingestion</b>    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

#### Component Information

| Chemical name                   | Oral LD50            | Dermal LD50 | Inhalation LC50         |
|---------------------------------|----------------------|-------------|-------------------------|
| Ammonium nitrate<br>6484-52-2   | = 2217 mg/kg ( Rat ) | -           | > 88.8 mg/L ( Rat ) 4 h |
| Urea<br>57-13-6                 | = 8471 mg/kg ( Rat ) | -           | -                       |
| Ammonium hydroxide<br>1336-21-6 | = 350 mg/kg ( Rat )  | -           | -                       |

### Symptoms related to the physical, chemical and toxicological characteristics

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| <b>Symptoms</b> | Redness. May cause redness and tearing of the eyes. |
|-----------------|-----------------------------------------------------|

### Acute toxicity

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

|                                      |            |
|--------------------------------------|------------|
| <b>ATEmix (oral)</b>                 | 5654 mg/kg |
| <b>ATEmix (inhalation-dust/mist)</b> | 182 mg/L   |

### Unknown Toxicity

49 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

49 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
49 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
49 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
49 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Irritating to skin.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name                 | ACGIH | IARC     | NTP | OSHA |
|-------------------------------|-------|----------|-----|------|
| Ammonium nitrate<br>6484-52-2 | -     | Group 2A | -   | X    |

#### **Legend**

**IARC (International Agency for Research on Cancer)**

*Group 2A - Probably Carcinogenic to Humans*

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

| Chemical name                   | Algae/aquatic plants | Fish                                                   | Toxicity to microorganisms | Crustacea                                                                                     |
|---------------------------------|----------------------|--------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------|
| Ammonium nitrate<br>6484-52-2   | -                    | 65 - 85: 48 h Cyprinus carpio<br>mg/L LC50 semi-static | -                          | -                                                                                             |
| Urea<br>57-13-6                 | -                    | 16200 - 18300: 96 h Poecilia<br>reticulata mg/L LC50   | -                          | 3910: 48 h Daphnia magna<br>mg/L EC50 Static 10000: 24<br>h Daphnia magna Straus<br>mg/L EC50 |
| Ammonium hydroxide<br>1336-21-6 | -                    | 8.2: 96 h Pimephales<br>promelas mg/L LC50             | -                          | 0.66: 48 h water flea mg/L<br>EC50 0.66: 48 h Daphnia<br>pulex mg/L EC50                      |

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

#### **Waste treatment methods**

**Waste from residues/unused** Disposal should be in accordance with applicable regional, national and local laws and

products regulations.  
Contaminated packaging Do not reuse empty containers.

#### 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

##### ICAO (air)

UN/ID no. UN2071  
Proper shipping name AMMONIUM NITRATE BASED FERTILIZER  
Hazard class 9  
Packing group III  
Special Provisions A89, A90  
Description UN2071, AMMONIUM NITRATE BASED FERTILIZER, 9, III

##### IATA

UN number UN2071  
UN proper shipping name AMMONIUM NITRATE FERTILIZERS  
Transport hazard class(es) 9  
Packing group III  
Special Provisions A89, A90  
Description UN2071, AMMONIUM NITRATE FERTILIZERS, 9, III

##### IMDG

UN number UN2071  
UN proper shipping name AMMONIUM NITRATE BASED FERTILIZER  
Transport hazard class(es) 9  
Packing group III  
EmS-No. F-H, S-Q  
Special Provisions 186, 193  
Description UN2071, AMMONIUM NITRATE BASED FERTILIZER, 9, III, LIMITED QUANTITY

#### 15. REGULATORY INFORMATION

##### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

##### International Inventories

TSCA Not Listed  
DSL/NDSL Not Listed  
EINECS/ELINCS Listed  
ENCS Not Listed  
IECSC Not Listed  
KECL Not Listed  
PICCS Not Listed  
AICS Not Listed

##### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name                  | SARA 313 - Threshold Values % |
|--------------------------------|-------------------------------|
| Ammonium nitrate - 6484-52-2   | 1.0                           |
| Ammonium hydroxide - 1336-21-6 | 1.0                           |

### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical name                   | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Ammonium hydroxide<br>1336-21-6 | 1000 lb                     | -                      | -                         | X                          |

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name                   | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---------------------------------|--------------------------|------------------------------------|
| Ammonium hydroxide<br>1336-21-6 | 1000 lb                  | -                                  |

## US State Regulations

### U.S. State Right-to-Know Regulations

#### **US State Regulations**

| Chemical name                   | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------|------------|---------------|--------------|
| Ammonium nitrate<br>6484-52-2   | X          | X             | X            |
| Ammonium hydroxide<br>1336-21-6 | X          | X             | X            |
| Trade Secret                    | X          | -             | X            |

## **16. OTHER INFORMATION**

### NFPA

Health hazards 2

Flammability 1

Instability 0

Physical and Chemical  
Properties -

### HMIS

Health hazards 2 \*

Flammability 1

Physical hazards 0

Personal protection X

Chronic Hazard Star Legend

\* = Chronic Health Hazard

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of PBI Gordon Corporation's knowledge, information and belief at the date of this publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process, unless specified in the text. PBI GORDON CORPORATION MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Each user is also responsible for

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evaluating the conditions of use and designing the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. PBI Gordon Corporation assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

**End of Safety Data Sheet**