

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Product name : 21-7-14 5% Fe 27% SRN

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fertilizer

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

Power-Line Products  
20504 4th Street - Acequia  
Rupert, ID. 83350 - USA  
T 208-531-4100 - F 208-531-4069  
[www.powerlineproducts.com](http://www.powerlineproducts.com)

### 1.4. Emergency telephone number

Emergency number : 24 Hour Emergency HAZMAT Response (800) 229-5252 ; EPA National Response Center (800) 424-8802

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Skin corrosion/irritation H315  
Category 2  
Serious eye H320  
damage/eye irritation  
Category 2B  
Full text of H statements : see section 16

### 2.2. Label elements

#### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H315 - Causes skin irritation  
H320 - Causes eye irritation  
Precautionary statements (GHS-US) : P264 - Wash skin thoroughly after handling  
P280 - Wear eye protection, protective gloves  
P302+P352 - If on skin: Wash with plenty of water  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P321 - Specific treatment (see the first aid section on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

# 21-7-14 5% Fe 27% SRN

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name          | Product identifier | %       | Classification (GHS-US)                    |
|---------------|--------------------|---------|--|
| urea          | (CAS No) 57-13-6   | 20 - 30 | Eye Irrit. 2B, H320                        |
| Iron Sucrate  |                    | <= 10   | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320 |
| sulfur, solid | (CAS No) 7704-34-9 | 0.5 - 6 | Skin Irrit. 2, H315                        |

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : 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.
- First-aid measures after ingestion : Rinse mouth. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : May cause skin and eye irritation.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : Irritation.
- Symptoms/injuries after eye contact : mild eye irritation.
- Symptoms/injuries after ingestion : May cause gastrointestinal discomfort.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Special hazards arising from the substance or mixture

- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Recover mechanically the product.
- Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

# 21-7-14 5% Fe 27% SRN

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 7.2. Conditions for safe storage, including any incompatibilities

|                            |  |
|----------------------------|--|
| Storage conditions         | : Store in a well-ventilated place. Keep cool.                           |
| Storage area               | : Keep container in a well-ventilated place. Store in a cool, dry place. |
| Special rules on packaging | : correctly labelled. meet the legal requirements.                       |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|                                  |                                |                     |
|----------------------------------|--------------------------------|---------------------|
| <b>urea (57-13-6)</b>            |                                |                     |
| Not applicable                   |                                |                     |
| <b>sulfur, solid (7704-34-9)</b> |                                |                     |
| ACGIH                            | ACGIH TWA (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup> |
| Not applicable                   |                                |                     |
| <b>Iron Sucrate</b>              |                                |                     |
| Not applicable                   |                                |                     |

### 8.2. Exposure controls

|                                  |   |
|----------------------------------|---|
| Appropriate engineering controls | : Ensure good ventilation of the work station.                              |
| Hand protection                  | : Protective gloves.  |
| Eye protection                   | : Safety glasses.   |
| Skin and body protection         | : Wear suitable protective clothing.  |
| Respiratory protection           | : In case of insufficient ventilation, wear suitable respiratory equipment. |
| Environmental exposure controls  | : Avoid release to the environment.   |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state                              | : Solid  |
| Appearance                                  | : dry flowable granules.   |
| Color                                       | : Multicolor   |
| Odor  | : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.<br>Mixture contains one or more component(s) which have the following odour(s):<br>Odourless In moist air: Ammonia odour Pure substance is odourless Commercial/unpurified substance: Unpleasant odour |
| Odor threshold                              | : No data available  |
| pH  | : No data available  |
| Melting point                               | : No data available  |
| Freezing point                              | : Not applicable   |
| Boiling point                               | : No data available  |
| Flash point                                 | : Not applicable   |
| Relative evaporation rate (butyl acetate=1) | : No data available  |
| Flammability (solid, gas)                   | : No data available  |
| Explosion limits                            | : Not applicable   |
| Explosive properties                        | : No data available  |
| Oxidizing properties                        | : No data available  |
| Vapor pressure                              | : No data available  |
| Relative density                            | : Not applicable   |
| Relative vapor density at 20 °C             | : No data available  |
| Solubility                                  | : Soluble in water.  |
| Log Pow                                     | : No data available  |
| Auto-ignition temperature                   | : Not applicable   |
| Decomposition temperature                   | : No data available  |
| Viscosity                                   | : No data available  |

# 21-7-14 5% Fe 27% SRN

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, kinematic : Not applicable  
Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| urea (57-13-6)     |  |
|--------------------|--|
| LD50 oral rat      | 8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rat    | > 3200 mg/kg (Rat; Literature study)   |
| LD50 dermal rabbit | > 21000 mg/kg (Rabbit; Literature study)   |
| ATE US (oral)      | 8471.000 mg/kg body weight   |

| sulfur, solid (7704-34-9)  |                       |
|----------------------------|-----------------------|
| LD50 oral rat              | > 5000 mg/kg (Rat)    |
| LD50 dermal rabbit         | > 2000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | > 9.23 mg/l/4h (Rat)  |

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes eye irritation.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause respiratory irritation.  
Symptoms/injuries after skin contact : Irritation.  
Symptoms/injuries after eye contact : mild eye irritation.  
Symptoms/injuries after ingestion : May cause gastrointestinal discomfort.

# 21-7-14 5% Fe 27% SRN

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

| urea (57-13-6)                            |  |
|---|--|
| LC50 fish 1                               | > 6810 mg/l (96 h; <i>Leuciscus idus</i> ; Nominal concentration)  |
| EC50 Daphnia 1                            | > 10000 mg/l (48 h; <i>Daphnia magna</i> ; Nominal concentration)  |
| LC50 fish 2                               | 17500 mg/l (96 h; <i>Poecilia reticulata</i> )                     |
| EC50 Daphnia 2                            | > 10000 mg/l (24 h; <i>Daphnia magna</i> )                         |
| TLM fish 1                                | 17500 ppm (96 h; <i>Poecilia reticulata</i> )                      |
| Threshold limit other aquatic organisms 1 | 120000 mg/l (16 h; Bacteria; Toxicity test)                        |
| Threshold limit other aquatic organisms 2 | > 10000 mg/l ( <i>Pseudomonas putida</i> )                         |
| Threshold limit algae 1                   | > 10000 mg/l (168 h; <i>Scenedesmus quadricauda</i> ; Growth rate) |
| Threshold limit algae 2                   | 47 mg/l (192 h; <i>Microcystis aeruginosa</i> ; Growth rate)       |

| sulfur, solid (7704-34-9)                 |  |
|---|--|
| LC50 fish 1                               | 866 mg/l (96 h; <i>Brachydanio rerio</i> )                             |
| LC50 fish 2                               | > 100 mg/l 96 h; <i>Salmo gairdneri</i> ( <i>Oncorhynchus mykiss</i> ) |
| TLM fish 1                                | 10000 ppm (96 h; <i>Gambusia affinis</i> )                             |
| Threshold limit other aquatic organisms 1 | > 10000 mg/l (24 h; <i>Daphnia magna</i> )                             |

#### 12.2. Persistence and degradability

| urea (57-13-6)                |   |
|-------------------------------|---|
| Persistence and degradability | Inherently biodegradable. Hydrolysis in water. Highly mobile in soil. |
| ThOD                          | 0.27 g O <sub>2</sub> /g substance                                    |

| sulfur, solid (7704-34-9)       |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD) | Not applicable   |
| Chemical oxygen demand (COD)    | Not applicable   |
| ThOD                            | Not applicable   |
| BOD (% of ThOD)                 | Not applicable   |

#### 12.3. Bioaccumulative potential

| urea (57-13-6)                |  |
|-------------------------------|--|
| BCF fish 1                    | 1 (72 h; <i>Brachydanio rerio</i> ; Fresh water)                   |
| BCF other aquatic organisms 1 | 11700 ( <i>Chlorella</i> sp.)                                      |
| Log Pow                       | < -1.73 (Experimental value; EU Method A.8: Partition Coefficient) |
| Bioaccumulative potential     | Bioaccumulation: not applicable.                                   |

| sulfur, solid (7704-34-9) |  |
|---------------------------|--|
| Log Pow                   | 0.23 (Estimated value)                           |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

#### 12.4. Mobility in soil

| sulfur, solid (7704-34-9) |                    |
|---------------------------|--------------------|
| Ecology - soil            | Not toxic to bees. |

#### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

# 21-7-14 5% Fe 27% SRN

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT  
Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### urea (57-13-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### sulfur, solid (7704-34-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

##### sulfur, solid (7704-34-9)

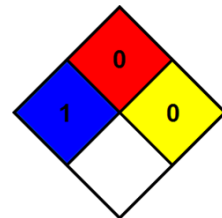
U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

Full text of H-phrases:

|      |                        |
|------|------------------------|
| H315 | Causes skin irritation |
| H320 | Causes eye irritation  |

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.  
NFPA fire hazard : 0 - Materials that will not burn.  
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2012)

All information contained in this Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the is, as of the date of this Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the informatio as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of the information.