10-10-10 All Purpose Fertilizer
Safety Data Sheet

Section 1. Identification

Product identifier 10-10-10 All Purpose Fertilizer
Other means of identification None
Synonyms None
Recommended use Fertilizer
Uses advised against None Non-hazardous
Company Southern Agricultural Insecticides, Inc.
P.O. Box 218
Palmetto, FL 34220
Company Telephone/Fax (941) 722-3285/(941) 723-2974
Emergency Telephone Number For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night: 1-800-424-9300

Section 2. Hazards identification

OSHA/HCS status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture Not classified. Non-hazardous product.

GHS label elements Not Applicable.

Hazard pictograms Not Applicable.
Signal word No signal word
Hazard statements Not Applicable.
Precautionary statements
General Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention Not Applicable.
Response Not Applicable.
Storage Not Applicable.
Disposal Not Applicable.

Hazards not otherwise classified Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

Substance/mixture Multi-constituent substance
CAS number/other identifiers

CAS number
Not available.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>28 - 36</td>
<td>7783-20-2</td>
</tr>
<tr>
<td>Potassium magnesium sulfate</td>
<td>18</td>
<td>14977-37-8</td>
</tr>
<tr>
<td>Calcium sulfate, dihydrate</td>
<td>14 - 15</td>
<td>10101-41-4</td>
</tr>
<tr>
<td>Ammonium dihydrogen orthophosphate</td>
<td>13 - 18</td>
<td>7722-76-1</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>10 - 11</td>
<td>7447-40-7</td>
</tr>
<tr>
<td>Ammonium nitrate</td>
<td>2-3</td>
<td>6484-52-2</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact
No known significant effects or critical hazards. May cause irritation due to mechanical action. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If irritation persists, get medical attention.

Inhalation
Non-hazardous in case of inhalation. No known significant effects or critical hazards. Get medical attention if symptoms occur. In a fire, hazardous decomposition products may be produced. If any ill effects are felt, proceed as follows. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. For additional advice call the medical emergency number on this SDS or your poison center or doctor.

Skin contact
No known effect after skin contact. Rinse with water for a few minutes.

Ingestion
May cause gastrointestinal irritation and diarrhea. Wash out mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. For additional advice call the medical emergency number on this SOS or your poison center or doctor.

Most important symptoms/effects. acute and delayed

Potential acute health effects

Eye contact
May cause irritation due to mechanical action.

Inhalation
Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact
No known significant effects or critical hazards.

Ingestion
May cause irritation of the digestive tract with accompanying nausea, vomiting and diarrhea.
Over-exposure signs/symptoms

Eye contact  Adverse symptoms may include the following:
irritation, watering, redness

Inhalation  Adverse symptoms may include the following:
respiratory tract irritation, coughing

Skin contact  No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician  In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments  No specific treatment. Treat symptomatically.

Protection of first-aiders  No action should be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media  Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media  None known.

Specific hazards arising from the chemical  No specific fire or explosion hazard. The substance will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases.

Hazardous thermal decomposition products  Decomposition products may include the following materials:
nitrogen oxides, sulfur oxides

Special protective actions for fire-fighters  Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters  Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark  Contain and collect the water used to fight the fire for later treatment and disposal.
Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

No action shall be taken involving any personal risk or without suitable training. Keep personnel unnecessary and unprotected personnel from entering. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Will dissolve and disperse in water. Reclaiming material may not be possible. If possible, recover spilled product and place in suitable containers for recycle, reuse, or disposal. Product will promote algae growth and may degrade water quality and taste. Notify downstream water users. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

Move containers from spill area. Avoid dust generation. Recycle, if possible. or : place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Avoid creating dusty conditions and prevent wind dispersal. Recycle to process, if possible. or : Place spilled material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Hygroscopic. Absorbs moisture on long-term storage under high humidity conditions. Store in original container protected from direct sunlight in a dry, cool and
well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m3; Respirable fraction: 5 mg/m3.</td>
</tr>
<tr>
<td>Potassium magnesium sulfate</td>
<td>OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m3; Respirable fraction: 5 mg/m3.</td>
</tr>
<tr>
<td>Calcium sulfate, dihydrate</td>
<td>ACGIH TLV (United States, 4/2014). TWA: 10 mg/m3 8 hours. Form: Inhalable fraction</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m3; Respirable fraction: 5 mg/m3.</td>
</tr>
<tr>
<td>Ammonium dihydrogen orthophosphate</td>
<td>OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m3; Respirable fraction: 5 mg/m3.</td>
</tr>
<tr>
<td>Ammonium nitrate</td>
<td>OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m3; Respirable fraction: 5 mg/m3.</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.
Eye/face protection
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection
Hand protection
The personal protective equipment required varies, depending upon your risk assessment. No special protection is required. For prolonged or repeated handling, use the following type of gloves: leather work gloves

Body protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or cotton/synthetic overalls or coveralls are normally suitable.

Other skin protection
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. No special measures are typically indicated.

Respiratory protection
A respirator is not needed under normal and intended conditions of product use. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Contact your personal protective equipment supplier to verify the compatibility of the equipment for the intended purpose. For U.S. work sites where respiratory protection is required, ensure that a respiratory protection program meeting 29 CFR 1910.134 requirements is in place.

Section 9. Physical and chemical properties

Appearance
Physical state Granular solid.
Color Gray.
Odor Odorless.
Odor threshold Not applicable.
pH 6 [Conc. (w/w): 10]
Melting point Not available.
Boiling point Decomposes.
Flash point [Product does not sustain combustion.]
Evaporation rate Not applicable.
Flammability (solid, gas) Not applicable. The substance will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases.
Lower and upper explosive (flammable) limits Not applicable.
Vapor pressure Not applicable.
Vapor density Not applicable.
Relative density Not applicable.
Solubility Easily soluble in the following materials: hot water.
Solubility in water Water soluble.
Partition coefficient: n-octanol/water Not applicable.
Auto-ignition temperature Not applicable
Decomposition temperature Not applicable.
Viscosity Not applicable.

Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

Chemical stability The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid Absorbs moisture on long-term storage under high humidity conditions. Store in a well-ventilated, dry place. Protect from moisture.

Incompatible materials Incompatible with halogens. Incompatible with oxidizers

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name exposure</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>LD50 Oral</td>
<td>Mouse - Male, Female</td>
<td>3040 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2840 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat - Male, Female</td>
<td>&gt;2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Potassium magnesium sulfate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3 g/kg</td>
<td></td>
</tr>
<tr>
<td>Calcium sulfate, dihydrate</td>
<td>LC50 Inhalation</td>
<td>Rat - Male, Female</td>
<td>&gt;3.26 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>Dusts and mists</td>
<td>Female</td>
<td>CaS04.2H20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat - Male, Female</td>
<td>&gt;1581 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Ammonium dihydrogen orthophosphate</td>
<td>LD50 Oral</td>
<td>Rat - Male, Female</td>
<td>Oral</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Ammonium nitrate</td>
<td>LD50 Oral</td>
<td>Rat - Male, Female</td>
<td>Oral</td>
<td>2217 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2950 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Conclusion/Summary**

Very low toxicity to humans or animals. No known significant effects or critical hazards.

### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>Skin</td>
<td>Rabbit</td>
<td>0</td>
<td>20 hours</td>
</tr>
<tr>
<td>Eyes</td>
<td>Rabbit</td>
<td>0</td>
<td>-</td>
<td>72 hours</td>
</tr>
<tr>
<td>Ammonium nitrate</td>
<td>Skin</td>
<td>Rabbit</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>Eyes - Edema of the conjunctivae</td>
<td>Rabbit</td>
<td>3</td>
<td>-</td>
<td>3 days</td>
</tr>
</tbody>
</table>

**Conclusion/Summary**

Skin

No known significant effects or critical hazards.

Eyes

Non-irritating to the eyes. Based on available data, the classification criteria are not met.

Respiratory

No known significant effects or critical hazards.

### Sensitization

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Route of exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Not sensitizing</td>
</tr>
<tr>
<td>Calcium sulfate, dihydrate</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Not sensitizing</td>
</tr>
<tr>
<td>Ammonium nitrate</td>
<td>skin</td>
<td>Mouse</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>

**Conclusion/Summary**

Skin

Non-sensitizer.

Respiratory

No known significant effects or critical hazards.

### Mutagenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Experiment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>OECD 476</td>
<td>Experiment: In vitro; Subject: Mammalian-Animal Cell: Somatic</td>
<td>Negative</td>
</tr>
<tr>
<td></td>
<td>OECD 473</td>
<td>Experiment: In vitro; Subject: Mammalian-Animal Cell: Germ</td>
<td>Negative</td>
</tr>
<tr>
<td>Calcium sulfate, dihydrate</td>
<td>OECD 476</td>
<td>Experiment: In vitro; Mammalian Cell Gene Mutation Test</td>
<td>Negative</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information continued

Potassium chloride  
-  
Experiment: In vivo  
Negative  

Ammonium nitrate  
OECD 471 Bacterial Reverse Mutation Test  
Subject: Mammalian-Animal  
Cell: Somatic  
Experiment: In vitro  
Negative  

OECD 476 /In vitro Mammalian Cell Gene Mutation Test  
Subject: Bacteria  
Experiment: In vitro  
Negative  

Conclusion/Summary  No known significant effects or critical hazards.

Carcinogenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>Negative - Oral - TClo</td>
<td>Rat - Male, Female</td>
<td>1288 mg/kg</td>
<td>2 years; 7 days per week</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>Negative - Oral - TDlo</td>
<td>Rat - Male</td>
<td>1820 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary  No known significant effects or critical hazards.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>None.</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Reproductive toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Maternal toxicity</th>
<th>Fertility</th>
<th>Development toxin</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>Negative</td>
<td>Negative</td>
<td>-</td>
<td>Mouse - Male, Female</td>
<td>Oral: 5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Calcium sulfate, dihydrate</td>
<td>Negative</td>
<td>Negative</td>
<td>Negative</td>
<td>Rat - Male, Female</td>
<td>Oral</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary  No known significant effects or critical hazards.

Teratogenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>Negative - Oral</td>
<td>Rat - Male, Female</td>
<td>1500 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary  No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)  Not available.
Specific target organ toxicity (repeated exposure)  Not available.
Aspiration hazard  Not available.

Information on the likely routes of exposure  routes of entry anticipated: Inhalation.
Potential acute health effects

**Eye contact**  
May cause irritation due to mechanical action.

**Inhalation**  
Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact**  
No known significant effects or critical hazards.

**Ingestion**  
May cause irritation of the digestive tract with accompanying nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**  
Adverse symptoms may include the following: irritation, watering, redness

**Inhalation**  
Adverse symptoms may include the following: respiratory tract irritation, coughing

**Skin contact**  
No specific data.

**Ingestion**  
No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure**

- **Potential immediate effects**  
  Not available.

- **Potential delayed effects**  
  Not available.

**Long term exposure**

- **Potential immediate effects**  
  Not available.

- **Potential delayed effects**  
  Not available.

Potential chronic health effects

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>Chronic NOAEL Oral</td>
<td>Rat - Male, Female</td>
<td>256 mg/kg</td>
<td>52 weeks; 7 days per week</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>Chronic NOAEL Oral</td>
<td>Rat - Male</td>
<td>1820 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Ammonium nitrate</td>
<td>Chronic NOAEL Oral</td>
<td>Rat - Male, Female</td>
<td>256 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Conclusion/Summary**  
No known significant effects or critical hazards.

**General**  
No known significant effects or critical hazards.

**Carcinogenicity**  
No known significant effects or critical hazards.

**Mutagenicity**  
No known significant effects or critical hazards.

**Teratogenicity**  
No known significant effects or critical hazards.

**Developmental effects**  
No known significant effects or critical hazards.

**Fertility effects**  
No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>1924.2 mg/kg</td>
</tr>
<tr>
<td>Inhalation (dusts and mists)</td>
<td>10.27 mg/l</td>
</tr>
</tbody>
</table>
Section 12. Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate</td>
<td>Acute LC50 2.6 mg/l Fresh water</td>
<td>Crustaceans - Ceriodaphnia dubia - Young</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 14000 I-lg/l Daphnia - Fresh water</td>
<td>Daphnia magna - Young</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 53 mg/l</td>
<td>Fish - Oncorhynchus mykis</td>
<td>96 hours</td>
</tr>
<tr>
<td>Calcium sulfate, dihydrate</td>
<td>EC50 &gt; 79 mg/l</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>EC50 &gt; 79 mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>EC50 &gt; 790 mg/l</td>
<td>Micro-organism</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt; 1970 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>Acute EC50 1337000 I-lg/l Fresh water</td>
<td>Algae - Navicula seminulum</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 9.24 g/L Fresh water</td>
<td>Algae - Desmodesmus subspicatus</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 83000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 9.68 mg/l Fresh water</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute LC50 4350000 μg/l Fresh water</td>
<td>Fish - Gambusia affinis - Adult</td>
<td>96 hours</td>
</tr>
<tr>
<td>Ammonium nitrate</td>
<td>Chronic NOEC 6 to 12 mg/l Fresh water</td>
<td>Crustaceans - Cladocera</td>
<td>21 days</td>
</tr>
</tbody>
</table>

Conclusion/Summary
Practically non-toxic to aquatic organisms.

Persistence and degradability
Not available.

Bioaccumulative potential
Not available.

Mobility in soil
Soil/water partition coefficient (Kee)
Not available.

Other adverse effects
No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

<table>
<thead>
<tr>
<th>DOT</th>
<th>IMDG</th>
<th>TDG</th>
<th>IATA</th>
<th>Mexico Classification</th>
<th>ADR/RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

11/14
UN proper shipping name: None
Transport hazard class(es): None
Packing group: None
Environmental No.
Additional information: None

Special precautions for user
Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations
TSCA 8(a) COR Exempt/Partial exemption: Not determined
TSCA 8(b) inventory: All components are listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)
Not listed

Clean Air Act Section 602 Class I Substances
Not listed

Clean Air Act Section 602 Class II Substances
Not listed

OEA List I Chemicals (Precursor Chemicals)
Not listed

DEA List II Chemicals (Essential Chemicals)
Not listed

SARA 304 RQ
Not listed

SARA 311/312 Classification
Not applicable.

SARA 313

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form R - Reporting requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium sulfate</td>
<td>7783-20-2</td>
<td>28.085 - 36.583</td>
</tr>
<tr>
<td>Ammonium dihydrogen orthophosphate</td>
<td>7722-76-1</td>
<td>10.998 - 15.13</td>
</tr>
<tr>
<td>Ammonium nitrate</td>
<td>6484-52-2</td>
<td>2.9</td>
</tr>
<tr>
<td><strong>Supplier notification</strong></td>
<td></td>
<td></td>
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<tr>
<td>Ammonium sulfate</td>
<td>7783-20-2</td>
<td>28.085 - 36.583</td>
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<td>6484-52-2</td>
<td>2.9</td>
</tr>
</tbody>
</table>

12/14
SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations
Massachusetts  The following components are listed: Ammonium sulfate; Ammonium nitrate
New York  None of the components are listed.
New Jersey  The following components are listed: Ammonium nitrate; Nitric acid, ammonium salt
Pennsylvania  The following components are listed: Sulfuric acid diammonium salt; Nitric acid, ammonium salt

California Prop. 65
Not listed.

International regulations

International lists

National inventory
Australia  Not determined.
Canada  All components are listed or exempted.
China  Not determined.
Europe  Not determined.
Japan  Not determined.
Malaysia  Not determined.
New Zealand  Not determined.
Philippines  Not determined.
Republic of Korea  Not determined.
Taiwan  Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)
Health: 0  Flammability: 0  Physical hazards: 0
Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).
The customer is responsible for determining the PPE code for this material.

Notice to reader
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Date of issue/Date of revision
10/2015