# Simplot CAN-17 Calcium Ammonium Nitrate Solution
## Safety Data Sheet

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

<table>
<thead>
<tr>
<th>SECTION 1: Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.1. Identification</strong></td>
</tr>
<tr>
<td>Product form: Mixture</td>
</tr>
<tr>
<td>Product name: Simplot CAN-17 Calcium Ammonium Nitrate Solution</td>
</tr>
<tr>
<td>Product code: M11110</td>
</tr>
</tbody>
</table>

| **1.2. Recommended use and restrictions on use** |
| No additional information available |

| **1.3. Supplier** |
| JR Simplot Company |
| P.O. Box 70013 |
| Boise, ID 83707 |
| T 1-208-336-2110 |

| **1.4. Emergency telephone number** |
| Emergency number: CHEMTREC 1-800-424-9300 |

| SECTION 2: Hazard(s) identification |
| **2.1. Classification of the substance or mixture** |
| **GHS-US classification** |
| Skin corrosion/irritation, Category 2: H315 - Causes skin irritation |
| Serious eye damage/eye irritation, Category 2: H319 - Causes serious eye irritation |
| Full text of H statements: see section 16 |

| **2.2. GHS Label elements, including precautionary statements** |
| **GHS-US labelling** |
| Hazard pictograms (GHS-US): |
| Signal word (GHS-US): Warning |
| Hazard statements (GHS-US): H315 - Causes skin irritation |
| H319 - Causes serious eye irritation |
| Precautionary statements (GHS-US): P264 - Wash hands, forearms and face thoroughly after handling |
| P280 - Wear protective gloves/protective clothing/eye protection/face protection |
| 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 supplemental first aid instruction on this label) |
| P332+P337+P338 - If skin irritation occurs: Get medical attention |
| P337+P313 - If eye irritation persists: Get medical attention |
| P362+P364 - Take off contaminated clothing and wash it before reuse |

| **2.3. Other hazards which do not result in classification** |
| 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** |
**SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. 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. Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. Rinse eyes with water as a precaution.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after eye contact: Causes eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

No additional information available

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. 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. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: “Exposure controls/personal protection”.

Emergency procedures: Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- ammonium nitrate (6484-52-2)
  - Not applicable
- Calcium Nitrate
  - Not applicable
- Water (7732-18-5)
  - Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Hand protection:
  - Wear protective gloves

Eye protection:
  - Chemical goggles or safety glasses. Safety glasses

Skin and body protection:
  - Wear suitable protective clothing

Respiratory protection:
  - Wear appropriate mask

Other information:
  - Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Clear solution.
Colour: Colourless
Odour: Characteristic
Odour threshold: No data available
pH: No data available
pH solution: 6 - 6.5
Melting point: Not applicable
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butylacetate=1): No data available
Flammability (solid, gas): Non flammable.
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Solubility: Complete.
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive limits: No data available
Explosive properties: No data available
Oxidising properties: 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
Not established.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

ammonium nitrate (6484-52-2)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat (Rat)</td>
<td>4820 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit (Rabbit)</td>
<td>&gt; 3000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral) (bodyweight)</td>
<td>4820 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation.
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<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Potential adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Symptoms/injuries</td>
<td>Not expected to present a significant hazard under anticipated conditions of normal use.</td>
</tr>
<tr>
<td>Symptoms/injuries after eye contact</td>
<td>Causes eye irritation.</td>
</tr>
</tbody>
</table>

**SECTION 12: Ecological information**

12.1. **Toxicity**

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Ecology - water: Harmful to aquatic life.

### ammonium nitrate (6484-52-2)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>74 mg/l (48 h; Cyprinus carpio; Lethal)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>555 mg/l (Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>800 mg/l (3.9 h; Pisces)</td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>100 - 1000,96 h; Pisces</td>
</tr>
<tr>
<td>TLM other aquatic organisms 1</td>
<td>100 - 1000,96 h</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>83 mg/l (Scenedesmus quadricauda; Growth rate)</td>
</tr>
</tbody>
</table>

### Calcium Nitrate

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>10000 mg/l (96 h; Pisces)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>100000 mg/l (96 h; Lepomis macrochirus)</td>
</tr>
</tbody>
</table>

12.2. **Persistence and degradability**

**Simplot CAN-17 Calcium Ammonium Nitrate Solution**

Persistency and degradability: Not established.

### ammonium nitrate (6484-52-2)


### Calcium Nitrate

Persistence and degradability: Biodegradable in the soil.

Biochemical oxygen demand (BOD): Not applicable

Chemical oxygen demand (COD): Not applicable

ThOD: Not applicable

BOD (% of ThOD): Not applicable

**Water (7732-18-5)**

Persistence and degradability: Not established.

12.3. **Bioaccumulative potential**

**Simplot CAN-17 Calcium Ammonium Nitrate Solution**

Bioaccumulative potential: Not established.

### ammonium nitrate (6484-52-2)

Log Pow: -3.1
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ammonium nitrate (6484-52-2)
Bioaccumulative potential: Bioaccumulation: not applicable. Not established.

Calcium Nitrate
Bioaccumulative potential: Not bioaccumulative.

Water (7732-18-5)
Bioaccumulative potential: Not established.

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects

Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to ...

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT

Other information: No supplementary information available.

TDG

Transport by sea

Air transport

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA
No additional information available

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
No additional information available

National regulations
No additional information available
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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

<table>
<thead>
<tr>
<th>Component</th>
<th>State or local regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium nitrate(6484-52-2)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td>Calcium Nitrate()</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

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Other information: None.

Full text of H-statements:

- **H272**: May intensify fire; oxidiser
- **H315**: Causes skin irritation
- **H319**: Causes serious eye irritation
- **H320**: Causes eye irritation

NFPA health hazard: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

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.

NFPA specific hazard: None

SDS US (GHS HazCom 2012)

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