## CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Formulator’s Name:** Fertilzone – Willcox, L.L.C.  
**PO Box 519**  
Willcox, AZ 85644-0519  

**PRODUCT NAME:** Calcium Nitrate Solution, CALNITAFL  
**CHEMICAL NAME:** Calcium Nitrate Ca(NO₃)₂  
**CHEMICAL FAMILY:** Inorganic Chemical Solution  
**EPA REG. NO.:** Not applicable  
**MSDS Revisions:** 05/25/2010  
**Date Of Issue:** 10/15/2005  

**EMERGENCY TELEPHONE NO.:**  
DAYS: (520) 384.2264  
24 Hour Emergency HAZMAT Response: (928) 783.3803

## COMPOSITION, INFORMATION ON INGREDIENTS (Note: see product tag or label for specific ingredients)

<table>
<thead>
<tr>
<th>Chemical Ingredients</th>
<th>Percentage by Weight</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Nitrate Ca(NO₃)₂</td>
<td>48.0 to 54.0</td>
<td>Mixture</td>
</tr>
<tr>
<td>Water and inert ingredients</td>
<td>52.0 to 46.0</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

## HAZARDS IDENTIFICATION SUMMARY

**CAUTION:** KEEP OUT OF REACH OF CHILDREN. MAY BE HARMFUL IF SWALLOWED

This product is a clear to clear amber liquid. Primary routes of entry are Inhalation, eye contact and skin contact.

## FIRST AID MEASURES

**Eyes:** Flush eyes with large amount of water for at least 15 minutes. Consult a physician if irritation persists.  
**Skin:** Remove all contaminated clothing. Wash skin, hair, and fingernails thoroughly with soap and water. If irritation persists seek medical attention. Wash clothing before reuse.  
**Ingestion:** If swallowed, do not induce vomiting or give anything by mouth to an unconscious person. Call a physician to get medical attention.  
**Inhalation:** Move subject to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Get medical attention immediately.

## FIRE FIGHTING MEASURES

**FLAMMABILITY OF THE PRODUCT:** May be combustible at high temperature  
**EXTINGUISHING MEDIA:** Use medium appropriate to surrounding fire.  
**HAZARDOUS COMBUSTION PRODUCTS:** May include but are not limited to oxides of nitrogen, and some metallic oxides.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus and full protective gear.  
**HAZARDOUS THERMAL DECOMPOSITION:** These products are nitrogen oxides (NO, NO₂, etc)

## ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IF MATERIAL IS REALEASED OR SPILLED:**  
Avoid breathing vapors. Absorb and sweep up liquid spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.  
**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## HANDLING AND STORAGE

**HANDLING:** Store in a cool dry place away from children, feed and food products, and seed.  
**OTHER PRECAUTIONS:** Toxic to fish and other aquatic organisms. Do not contaminate water supplies by handling and storage of product. Drift or runoff may adversely affect aquatic invertebrates and non-target plants.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Not normally required.  
**RESPIRATORY PROTECTION:** Not normally required, if vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved pesticide respirator.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or Chemical-resistant gloves.  
**OSHA PEL 8 hr TWA ACGIH TLV-TWA**

Not established Not Established
PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear to clear amber liquid with no odor

SOLUBILITY: Soluble

BULK DENSITY: 11.68 to 12.52 lbs/gallon

VAPOR PRESSURE: Not established

PERCENT VOLATILE (by volume): Not established

SPECIFIC GRAVITY (Water= 1): 1.40 to 1.50 g/ml

PH: 5 to 7

BOILING POINT: Not established

EVAPORATION RATE: Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: Reactive with combustible materials, acids, alkalis.

Hazardous Decomposition Products: These products are nitrogen oxides (NO, NO₂, etc)

TOXICOLOGICAL INFORMATION

Acute Oral LD50 (rat): >2000 mg/kg

Acute Dermal LD50 (rabbit): >5000 mg/kg

Eye Irritation (rabbit): May cause moderate irritation

Skin Irritation (rabbit): May cause slight irritation

Inhalation: May cause respiratory tract irritation.

Ingestion: May cause stomach distress, nausea or vomiting.

Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH

ECOLOGICAL INFORMATION

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

DISPOSAL CONSIDERATIONS

Do not reuse container. Plastic Jugs: Triple rinse (or equivalent), then offer for recycling at an ACRC site or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state and federal regulations.

TRANSPORT INFORMATION

DOT Shipping Description: Not regulated by DOT by highway.

TDG Classification: Not regulated

REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings: NFPA HMIS

1 Health 0 Least 1 Health

0 Flammability 1 Slight 0 Flammability

0 Instability 2 Moderate 0 Reactivity

3 High H PPE

4 Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate __Y__ Fire __N__ Sudden Release of Pressure __N__

Delayed __N__ Reactive __N__

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed

RCRA Waste Code: Not listed

CA Proposition 65: Not listed

OTHER

MSDS STATUS: Revision made 05/25/2010

Although the information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof, Fertizona – Willcox, L.L.C. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will Fertizona – Willcox, L.L.C. be responsible for any damages of any nature including, without limitation, direct, special or consequential, resulting from the use, reliance upon, or the accuracy, completeness or furnishing of such information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREBEUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TOWHICH INFORMATION REFERS.