



## Material Safety Data Sheet

# MIN-jet Calcium

Date of Issue: Oct 2009 1 Gal. 030-4000

Arborjet, Inc.

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Woburn, MA 01801

In Case of Emergency, CHEM-TEL 1-800-255-3924

Product information: 1-781-935-9070

### Section 1: Product Identification

**Product Trade Name:** MIN-jet Calcium  
**EPA Signal Word:** Not a Pesticide  
**Active Ingredient (% w/w):** CaCO<sub>3</sub> 5%  
**Chemical Name:** Calcium Carbonate

### Section 2: Composition/Information on Ingredients

Material:	CAS No.:	Percent:	Exposure Limits:
CaCO <sub>3</sub>	471-34-1	5.0%	NA
Acetic Acid	64-19-7	9.72%	NA
Other**		85.28%	NA

\*Active Ingredient(s)

\*\*Other ingredients are any substances other than an active ingredient contained in this product. Other ingredients are either non-hazardous or remain proprietary. Hazards that may be associated with other ingredients are addressed in this document.

### Section 3: Hazards Identification

#### EMERGENCY OVERVIEW

#### Symptoms of Acute Exposure:

**Eye:** This product causes eye irritation. The extent of the injury will depend upon the amount and duration of contact, and the speed and thoroughness of the first aid treatment.

**Skin:** This product causes slight skin irritation. The extent of the injury will depend upon the amount and duration of contact, and the speed and thoroughness of the first aid treatment.

**Ingestion:** At high doses may cause nausea and vomiting. The extent of the injury will depend upon the amount and duration of contact, and the speed and thoroughness of the first aid treatment.

**Inhalation:** Based on an evaluation of the ingredients and/or similar products, this product is expected to be minimally toxic when inhaled. The extent of the injury will depend upon the amount and duration of contact, and the speed and thoroughness of the first aid treatment.

**Symptoms of Chronic Exposure:** With prolonged contact to the eye, irritation and redness can occur. With prolonged exposure to skin, it can cause dry and /or red, itchy skin. MIN-jet Calcium is not a known carcinogen.

### Section 4: First Aid Measures

**Eye Contact:** Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. If irritation persists, seek medical attention.

**Skin Contact:** If on skin, wash with soap and water thoroughly.

**Ingestion:** Do NOT induce vomiting. Small quantities of this material may cause no harm. If large amounts are swallowed, give two glasses of water or milk to drink and contact a physician or poison control center immediately.

**Inhalation:** If inhaled and signs of throat or nose irritation are observed, remove person the fresh air.

**Note to physician:** There is no specific antidote for this material, and treatment of over exposure should be directed at the control of symptoms and the clinical condition.

### Section 5: Fire Fighting Measures

**Fire and Explosion:** Material is non-combustible  
**Flash Point:** NA  
**Auto ignition:** NA  
**Flammable Limits (% in air):** Lower: NA Upper: NA  
**Extinguishing Media:** Use an extinguisher suitable for the other materials involved.

**NFPA Ratings:** Health 1; Flammability 0; Reactivity 2; Special None;

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4) These values are obtained using professional judgment. Values were not available in the guidelines or published evaluations prepared by the national Fire Protection Association, NFPA.

**Fire Fighting Instructions:** Product is non-combustible. Use an extinguisher suitable for the other materials involved. Water extinguishers are not recommended. As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

### Section 6: Accidental Release Measures

**Personal Precautions:** Use proper personal protective equipment as listed in section 8.

**In Case of Spill or Leak:** Control the spill or leak at the source. If product is leaking from a pressured device, shut off the pressure to slow the source of the leak. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage, drainage systems, or any body of water. For liquid spills, cover entire spill with absorbent material, and place into appropriate disposal container. Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations. If spill or leak gets on clothing, please read and observe precautions in Section 8: Exposure Controls/Personal Protection.

### Section 7: Handling and Storage

**Handling (User exposure):** Use in ventilated area. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

**Storage:** Store in a cool, dry, well ventilated area away from sources of heat and incompatible substances. Keep container tightly closed when not in use.

**For commercial and/or farm applications:** User must read and observe all precautions on the product label.

### Section 8: Exposure Controls/Personal Protection

**For commercial and/or farm applications:** User must read and observe all precautions on the product label.

**Eye Protection:** Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear. Splash goggles are recommended. Applicators should have an eyewash bottle available while injecting. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Skin Protection:** Avoid prolonged or frequent skin contact with this material. Skin contact can be minimized by wearing protective gloves. Chemically resistant gloves should be worn at all times when handling this material. Wear chemical resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or viton.

**Respiratory Protection:** No special respiratory protection is required. However, maintain good ventilation when using material.

**Ingestion Protection:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash hands with soap and water thoroughly after use to prevent possible ingestion of this product.

## Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Coral or bright orange
<b>Odor:</b>	Mild vinegar-like
<b>Solubility:</b>	Virtually complete
<b>Melting Point:</b>	NA
<b>Boiling Point:</b>	NA
<b>Specific Gravity:</b>	1.06g/mL
<b>Evaporation:</b>	NA
<b>Vapor Pressure:</b>	NA
<b>Molecular Weight:</b>	110.99
<b>Density:</b>	NA
<b>pH:</b>	5.0-5.5

## Section 10: Stability and Reactivity

**Chemical Stability:** Product is stable at normal ambient temperature.

**Conditions to Avoid:** Incompatibilities.

### Incompatibility (Materials to Avoid):

Methyl vinyl ether, water, zinc, bromine trifluoride, mixtures of lime and boric acid, barium chloride, and 2-furan percarboxylic acid. Metals will slowly corrode in aqueous calcium chloride solutions. Aluminum (and alloys) and yellow brass will be attacked by calcium chloride.

**Hazardous Decomposition Products:** Emits toxic chlorine fumes when heated to decomposition. May form hydrogen chloride in the presence of sulfuric or phosphoric acids; or with water at elevated temperatures.

**Hazardous Polymerization:** Polymerization will not occur.

## Section 11: Toxicology Information

**Acute:**  
**Eye Irritation:** Severely irritating to eyes.

**Skin Irritation:** Irritating to skin.

**Dermal Toxicity:** Concentrated Acetic Acid:  
LD50 1.06L/kg dermal (rabbit)

**Oral Toxicity:**  
Calcium Carbonate (Technical):  
LD50 6450mg/kg oral (rat)  
Concentrated Acetic Acid:  
LD50 3310mg/kg oral (rat)  
LD50 1.06L/kg dermal (rabbit)

**Inhalation Toxicity:** No known significant effects or critical hazards when in dilution might be irritant to lungs, throat, and nose.

**Sub-chronic Toxicity Studies:** NA

**Chronic/Carcinogenicity:** No data reported in the cited reference.

**Reproductive/Developmental Effects:** NA

## Section 12: Ecological Information

(Active Ingredient Specific Information)

**Summary of Ecological Effects:** NA

**Avian Toxicity:** NA

**Aquatic Organism Toxicity:** NA

**Other Non-Target Organism Toxicity:** NA

## Section 13: Disposal Considerations

**Applicators must dispose of any unused product as the label indicates.**

**Disposal Methods:** Do not reuse original product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

## Section 14: Transport Information

<b>DOT Shipping Name:</b>	NA
<b>Technical Shipping Name:</b>	NA
<b>DOT Hazard Class:</b>	NA
<b>DOT Identification Number:</b>	NA
<b>Remarks:</b>	NA

## Section 15: Regulatory Information

**Regulations Under FIFRA:** MIN-jet Calcium is not a pesticide.

**Other U.S. Federal Regulations:**

<b>OSHA:</b>	NA
<b>CERCLA RQ:</b>	NA
<b>RCRA:</b>	NA

### SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects:	NO
2. Delayed (Chronic) Health Effects:	NO
3. Fire Hazard:	NO
4. Sudden Release of Pressure Hazard:	NO
5. Reactivity Hazard:	NA

**State Regulations:** Some state standards may be stricter than the federal government, therefore users should consult state or local authorities since this section cannot provide a complete list of all state regulations.

## Section 16: Other Information

**For any non-emergency questions about this product call: 1-781-935-9070**

**Original Issued Date:** 12/29/05

**The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, either expressed or implied, is made with respect to the information contained herein.**