



Material Safety Data Sheet

MICRO-jet Mixable

Date of Issue: January 2008 Product No. 1 Liter 030-4039

Arborjet, Inc.
99 Blueberry Hill Rd
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: MICRO-jet Mixable
EPA Signal Word: Not a Pesticide
Active Ingredient (% w/w): CaCl₂ 4%
Chemical Name: Calcium chloride (CaCl₂)

Section 2: Composition/Information on Ingredients

Material:	CAS No.:	Percent:	Exposure Limits:
CaCl ₂	10043-52-4	4.0%	NA
Solvent System	NA	48.0%	NA
Other**		47.0%	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

WARNING

- HARMFUL IF SWALLOWED
- AVOID CONTACT WITH EYES, SKIN OR CLOTHING
- AVOID BREATHING MIST OR VAPOR
- KEEP OUT OF REACH OF CHILDREN

Symptoms of Acute Exposure:

Eye: This product causes eye irritation and redness. 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 may cause irritation to the skin. 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: This product has been shown to be harmful when ingested. The extent of the injury will depend upon the amount and duration of contact, and the speed and thoroughness of the first aid treatment. The expected adverse systemic health effects are described below.

Inhalation: This product may cause nasal 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.

Symptoms of Chronic Exposure: This product contains substances known to pose reproductive hazards.

For additional information on toxicity, please refer to section 11.

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. Remove contaminated clothes and was separately.

Product Name: MICRO-jet Mixable Manufactured By: Arborjet, Inc. Page: 1

Ingestion: If swallowed, DO NOT induce vomiting. If conscious and alert, give 2-4 cups of milk or water, 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. If not breathing, give artificial respiration preferably mouth-to-mouth.

Section 5: Fire Fighting Measures

Fire and Explosion:

Flash Point: 114.25
Method: TCC
Auto ignition: NA
Flammable Limits (% in air): Lower: NA Upper: NA
Extinguishing Media: CO₂, dry chemical, foam and water fog. Use media that is appropriate for surrounding materials.

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

(Least-0, Slight-1, Moderate-2, High-3, Extrem-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.

Extinguishing Media: Water spray, Carbon dioxide, dry chemical powder, or appropriate foam. Fight larger fires with water spray or alcohol resistant foam.

Fire Fighting Instructions: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document. Wear a fully protective impervious suit.

Hazardous Combustion Products: Normal combustion forms carbon dioxide and/or carbon monoxide.

Section 6: Accidental Release Measures

Procedure of Personal Precautions: Wear a respirator, safety goggles, rubber gloves and rubber boots. Ensure adequate ventilation.

In Case of Spill or Leak: Control the spill or leak at the source. If product is leaking from a pressurized 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. Scrub area with hard water detergent (Tide, Joy, Spic and Span), and pick up wash liquid with additional 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): Do not breathe vapor, Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Storage: Keep tightly closed. Keep away from heat and flame. Ensure good ventilation in the work place.

For commercial and/or farm applications:

User must read and observe all precautions on the product label.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Store the material in a well ventilated, secure area out of reach of children. Do not store food, beverages, or tobacco products in the material storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling. Do not apply to food-bearing plants. Keep children and pets away from treatment area until dry. Read entire label before using. Use strictly in accordance with label precautionary statements and directions. Do not apply to water bodies or allow runoff to contaminate aquatic sites.

Section 8: Exposure Controls/Personal Protection

For commercial and/or farm applications:

User must read and observe all precautions on the product label.

Section 12: Ecological Information

(Active Ingredient Specific Information)

Do not allow release to the environment.

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

DOT Shipping Name: NA
Technical Shipping Name: NA
DOT Hazard Class: NA
DOT Identification Number: NA
Remarks:

Section 15: Regulatory Information

Regulations under FIFRA: None

Other U.S. Federal Regulations:

OSHA: NA
CERCLA RQ: NA
RCRA: NA
SARA 311 CATEGORIES:
1. Immediate (Acute) Health Effects: YES
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: 04/01/2004

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.

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 clothing and 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 normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards the use of an approved respirator is required.

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

Appearance: Red/Pink Liquid
Odor: Mild Aromatic Odor
Solubility: Virtually complete
Melting Point: NA
Boiling Point: NA
Freezing Point: NA
Specific Gravity: 1.068g/cm³ @ 81° F
Evaporation: NA
Vapor Pressure: NA
Molecular Weight: NA
Density: NA
Viscosity: 3.86 – 4.15 cps
pH: 6.0 -7.5

Section 10: Stability and Reactivity

Chemical Stability: Product is stable at normal ambient temperature.
Conditions to Avoid: None known.
Incompatibility (Materials to Avoid): Strong acids or alkali materials and strong oxidizers.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.
Hazardous Polymerization: Polymerization will not occur.

Section 11: Toxicology Information

Acute: (Active Ingredient Specific Information)

Eye Irritation: Causes eye irritation.

Skin Irritation: Causes skin irritation.

Dermal Toxicity: May be harmful if absorbed through the skin.

Oral Toxicity: May be harmful if swallowed.

Inhalation Toxicity: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Skin sensitization: NA

Acute Toxicity (Range for toxic components)

Active Ingredient (Technical): LD50 6450mg/kg oral (rat)
Acetic Acid (Concentrated): LD50 3310mg/kg oral (rat)
LD50 1.06L/kg dermal (rabbit)

Chronic Exposure

To the best of our knowledge the chronic toxicity of this substance is not fully known.

Reproductive/Developmental Effects:

To the best of our knowledge the reproductive/developmental effects of this substance is not fully known.