

SAFETY DATA SHEET (SDS)**I. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **Nu-Arbor Anti-Transpirant**
 Common Name: Acrylic copolymer dispersion in water.
 Identified Uses: Additive (agriculture). Not for human consumption.

Supplier: Nu-Arbor Tree & Shrub Care Prd
 GRAND ARBOR GROUP, INC.
 dba Nu-Arbor Tree & Shrub
 Care Products
 P. O. BOX 151455
 1730 Olson NE STE A
 Grand Rapids, MI 49515-1455
 Telephone: (888) 773-8777/ (616) 456-8626
 FAX: (616) 456-7780

CHEMTREC
 Emergency Telephone: (800) 424-9300

II. HAZARDS IDENTIFICATION

Classification:
 Eye Irritant 2B H320
 STOT SE 3 H335
 STOT SE 3 H336

Hazard pictogram:



Signal word:
 Hazard statements:

Caution
 H320 - May cause eye irritation
 H335 - May cause respiratory irritation
 H336 - Breathing vapors may cause dizziness or drowsiness

Precautionary statements:

P261 - Avoid breathing vapors
 P264 - Wash thoroughly after handling
 P271 - Use only outdoors or in a well ventilated area
 P273 - Avoid release to aquatic environment
 P280 - Wear protective gloves/clothing/eyewear/face
 P302+P352 - If on skin: Wash with plenty of soap and water
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P312 - Call a poison center/doctor if you feel unwell
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P337+P313 - If eye irritation occurs: Get medical advice/attention
 P403+P233 - Store in a well ventilated place. Keep container tightly closed.
 P501 - Dispose of contents/container in accordance with local/regional/national regulations

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Compound	CAS Number	Percentage
Mixture/Confidential	NA	10 - 40 % solids
Water		Remainder

IV. FIRST AID MEASURES

If in Eyes: Hold eyelid open and rinse slowly and gently with water for 15-20 minutes.
 Remove contact lenses, if present, after the first 5 minutes, then continue

rinsing eye. If irritation develops and persists, call a poison control center or doctor immediately for treatment advice.

If on Skin: Wash skin with soap and water. Get medical attention if irritation develops.

If Swallowed: Do not induce vomiting unless told to do so by a poison control center or doctor. Have a person sip a glass of water if able to swallow. Do not give anything to an unconscious or convulsing person. Call a poison control center or doctor immediately for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Hotline Number: Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency, call ChemTrec at 1-800-424-9300.

V. FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam. Dry Powder. Carbon dioxide. Water spray. Sand. Use extinguishing media for underlying cause of fire. Do not use heavy water stream.

Advice for firefighters: Wear self-contained breathing apparatus and full protective equipment. Use water spray to cool containers exposed to heat and flame. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Specific Fire & Explosion Hazards: Material will not bum until water has been evaporated. Container may rupture on heating.

VI. ACCIDENTAL RELEASE MEASURES

Spill procedure: Spilled liquid and dried film are slippery. Capture product and reuse material if uncontaminated. If contaminated, place in a suitable container for proper disposal. Prevent entry to sewers and water supplies. Wash spill area with soap and water.

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: If indoors: ventilate area

VII. HANDLING AND STORAGE

Precautions for safe handling: Wash hands and exposed areas with soap and water before eating, drinking, or smoking. Provide good ventilation in process area. A void breathing vapors.

Storage Conditions: Keep in containers closed when not in use and properly labeled. A void generating dust. Minimize contact with air to reduce contamination with mold, fungus, or other organisms which could case decomposition or spoilage. Empty container contains product residue which may exhibit hazards of product.

Other specific storage conditions: Store where temperatures are between 10-38 degrees C (50-100 degrees F). Do not freeze. Storage tanks, pumps, piping and fittings should all be of stainless steel, glass lined carbon steel, glass reinforced polyester, or epoxy or phenolic coated carbon steel. A void use of zinc, copper, iron, aluminum, or low carbon steel.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves if exposure is expected.

Eye protection: Wear protective eyewear.
 Respiratory protection: Use NIOSH/MSHA approved respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded.
 Use self-contained breathing apparatus for entry into confined space, for poorly ventilated areas and for large spill clean-up sites.
 Other information: Use material in a well ventilated area only. Additional ventilation or exhaust may be required. Do not eat, drink, or smoke during use.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical description: Hazy or milky liquid
 Color: White
 Odor: Slight acrylate odor
 Odor threshold: No data available
 Vapor density: <1
 pH: 7.6 - 8.4
 Relative density: 1.1 (20 degrees C)
 Melting/freezing point: 0 degrees C (32° F)
 Solubility: Soluble in alkaline water
 Boiling point: 100 degrees C (212 degrees F)
 Flash point: Not applicable
 Flammability: No data available
 Vapor Pressure: 17 mm Hg (20°C)
 Partition coefficient: No data available
 Auto-ignition temperature: No data available
 Viscosity: No data available

X. STABILITY AND REACTIVITY

Chemical stability: Stable.
 Conditions to avoid: Do not freeze. Lowering the pH will cause precipitation.
 Incompatibility with other materials: Strong oxidizing agents. Materials that are not compatible with water.
 Hazardous combustion: Will not occur.
 Hazardous polymerization: Will not occur.
 Thermal Decomposition: Thermal decomposition and combustion are not expected to occur except under extreme conditions. Irritating and toxic substances may be emitted upon combustion, burning, or decomposition of dry solids.

XI. TOXICOLOGY

Potential acute health effects:
 Eyes: Weak to moderate eye irritant. Vapors may cause irritation.
 Skin: Not expected to be a primary skin irritant. Repeated or prolonged skin contact may cause irritation.
 Ingestion: Harmful if swallowed.
 Inhalation: Vapors may cause respiratory tract irritation.
 Other: OSHA PEL: 400 PPM. OSHA STEL: 500 PPM.

Potential chronic health effects
 Carcinogenic effects: No known significant effects or critical hazards.
 Mutagenic effects: No known significant effects or critical hazards.

United States

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Oral	Rat	> 10000 mg/kg	Not Available

Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Not Available				

Irritation/Corrosion

Product/ingredient name	Result	Species	Dose	Exposure
Not Available				

Sensitizer

Product/ingredient name	Result	Species	Dose	Exposure
Not Available				

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Not Available				

Chronic Effects on Humans:
Other Toxic Effects

No data available to indicate
Inhalation of this material may cause sensitive individuals to react to vapors. Pre-existing skin conditions may be aggravated by prolonged or repeated exposures.

XII. ECOLOGICAL INFORMATIONAquatic ecotoxicity

Product/ingredient name	Test	Species	Result	Exposure
Not Available				

Biodegradability

Product/ingredient name	Test	Result	Dose	Inoculum
Not Available				

Environmental Precautions:
Mobility:
Other Adverse Effects:

No known significant effects or critical hazards
Not available
No known significant effects or critical hazards

Waste Disposal Method:

This material, if discarded, is not hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal of waste must be in accordance with federal, state, or local regulations.

XIV. TRANSPORT INFORMATION

Shipping Name:
Hazard Class:
Identification#:
Labels Required:
Placarding:

Not regulated by DOT
None
None
None
None

XV. REGULATORY INFORMATION

HCS Classification: Irritating material

Sensitizing material

U.S. Federal regulations:

TSCA 8(a) IUR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

USA

TSCA 8(a) IUR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.

International regulations/International lists:

Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.

XVI. OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Nu-Arbor Tree & Shrub Care Products' knowledge. Nu-Arbor Tree & Shrub Care Products makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.