

MATERIAL SAFETY DATA SHEET

Product Name: ProForm-C # P1002

Manufacturer: AquaScience Research Group, Inc.
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North Kansas City, MO 64116

Emergency Telephone Numbers: 816-842-5936
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Effective Date: 20 July 2004

SECTION I: PRODUCT IDENTIFICATION:

Chemical names:
Water
Methanal
Methanol
Malachite Green Hydrochloride

Synonyms: Methanal: formaldehyde
Methanol: methyl alcohol
Chemical Family: Malachite Green Hydrochloride: C.I. basic green 4, C.I. 42000

SECTION II: PRODUCT COMPOSITION:

Formula CAS No.: Water: 7732-18-5
Methanal: 50-00-0
Methanol: 67-56-1
Malachite Green Hydrochloride: 560-64-2

Molecular Weight: Mixture (solution), not applicable

Hazardous Ingredients: Methanal <22% by weight
Methanol < 6% by weight
Malachite Green Hydrochloride <0.2% by weight

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Other Ingredients: Water; non hazardous

Chemical Formula: mixture: not applicable

SECTION III: PHYSICAL PROPERTIES:

Boiling Range: 96° to 101°C

Specific Gravity: ~1.05

**Vapor Pressure at
20°C (In mm of Hg):** 67-88 mm Hg @ 20°C (68°F)

**Vapor Density
(air = 1):** ~1.03

Solubility In Water: Infinite

**Evaporation Rate
(n-butanol = 1):** Similar to water, H₂O = 1

% Volatiles: >99%

**Appearance
and Odor:** Typical formaldehyde odor

SECTION IV: FIRE AND EXPLOSION DATA:

**Lower Flammability
Limits (% In air):** <7% LEL

**Flash Point
(and methods):** >69°C (156°F)

**Flammability
Classification:** Nonflammable

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In Case of Fire: use CO₂, water fog, foam or dry chemical (which ever is appropriate for the type of fire involved)

In Case of Spill or Accidental Release or Leak: spills and accidental release may be absorbed with paper towels or rinsed to sanitary sewers

Waste Disposal Procedures: dispose of per local, state and federal regulations for nonhazardous household chemicals

SECTION VIII: SPECIAL PROTECTION INFORMATION:

Respiratory Protection: Where air contaminants exceed acceptable limits, wear NIOSH/MSHA-approved full-face respirator or half-mask respirator with cartridge(s) or canister specially approved for protection against formaldehyde.

Local Exhaust: Use as required to reduce or eliminate air contamination.

Protective Gloves: recommended

Eye Protection: recommended

Other Protective Equipment: Apron and boots are recommended for large-scale use of the product.

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SECTION IX: ADDITIONAL PRECAUTIONS:

- (1) persons with preexisting skin disorders or eye irritations should avoid contact with eyes and skin
- (2) keep container upright and tightly closed when not in use
- (3) do not add any other materials to the container (including unused material originally removed from the container)

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**Recommended
Extinguishing Media:** none

**Special Fire Fighting
Procedures:** Wear self-contained breathing apparatus (SCBA) and complete personal protective equipment when potential for exposure to vapors or products of combustion exists.
Water spray can be used to reduce intensity of flames and to dilute spills that result from fire.

**Unusual Fire/
Explosion Hazards:** none

SECTION V: HEALTH INFORMATION:

**Threshold Limit
Value:** Methanal (formaldehyde): 0.75 ppm (OSHA PEL); 0.3 ppm (ACGIH TLV)
Methanol (methyl alcohol): 200 ppm (OSHA PEL); 200 ppm (ACGIH TLV)

**Effects of
Overexposure:** Eyes: Can cause chemical burns, vapor can cause irritation, tearing and/or burning sensation.
Skin: May be harmful if absorbed through the skin; causes irritation and may cause an allergic reaction.
Ingestion: Poisonous if swallowed; may cause severe irritation and inflammation of the mouth, throat and stomach.
Inhalation: May cause irritation and inflammation of the lining of the nose, throat and lungs and may cause respiratory sensitization.

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Emergency First Aid Procedures:

Eye contact: Flush with water for at least 15 minutes; seek medical help.

Skin contact: Wash exposed areas with soap and water. If irritation occurs, get medical attention.

Ingestion: Dilute by drinking large quantities of water. Do not give anything by mouth to an unconscious person. Contact a physician immediately,

Inhalation: Remove to fresh air. Contact a physician if irritation develops or persists.

CALIFORNIA WARNING: This product is known to contain detectable amounts of a chemical or chemicals known to the State of California to cause cancer/birth defects or other reproductive harm.

SECTION VI: REACTIVITY DATA:

Stability: Stable

Conditions to Avoid: Store above 60°F and below 100°F

Incompatibility: Strong acids, alkalis, bleaching agents, and strong oxidizing agents.

Hazardous Decomposition Products: Fire may cause the formation of carbon monoxide.

Hazardous Polymerization: will not occur

SECTION VII: FIRE AND SPILL/LEAK PROCEDURES: