

MATERIAL SAFETY DATA SHEET

Butterfield Color®

T1000 PRIMER: page 1 **MSDS # 106**

625 W Illinois Ave

Information Telephone No. 1-630-906-1980

Aurora IL 60506

Chemical Emergency No. 1-800-424-9300

Date of revision: April 5 2012

1. PRODUCT IDENTIFICATION

Trade Name: T 1000 PRIMER
 Made in: U.S.A.
 Chemical Family: Ethylene - Vinyl Acetate Copolymer
 Intended use: Adhesive

NFPA Hazard Classification

Health Hazard: 1
 Fire Hazard: 0
 Reactivity: 0
 Special Hazard:

HMIS Hazard Classification:

Health: 1* Slight Hazard/Chronic Effect
 Flammability: 0 Minimal Hazard
 Reactivity: 0 Minimal Hazard
 Personal Protection:

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS NO.	Name	ACGIH TWA	TLV STEL	OSHA PEL	AMOUNT
107211	Ethylene Glycol	NE	100 mg/m3	NE	1.00 - 3.00%
108054	Vinyl Acetate	10 ppm	15 ppm	NE	0.50 - 0.90%
24937788	Ethylene Vinyl Acetate Copolymer	NE	NE	NE	26.00 - 28.00%
7732185	Water	NE	NE	NE	70.00 - 72.00%

Refer to Section 8, subheading "Exposure Guidelines", for additional information concerning exposure limits.

3. HAZARDS IDENTIFICATION

Emergency overview:

Appearance: white Liquid, slight acetic odor, vapors may cause eye irritation, vapors may cause irritation to the respiratory tract, contact may cause skin irritation.

Route(s) of Entry: Eye contact, ingestion, inhalation, and skin contact.

Acute Exposure:

EYES: Direct contact with this material may cause eye irritation including lachrymation (tearing). INHALATION: Inhalation of vapor or aerosol may cause irritation to the respiratory tract (nose, throat, and lungs). SKIN: Contact may cause skin irritation. INGESTION: No hazard in normal industrial use.

Chronic Exposure:

Prolonged or repeated contact with skin may cause irritation and dermatitis (inflammation).

Carcinogenicity:

This material contains vinyl acetate monomer which is listed by the international Agency for Research on cancer (IARC) as a Group 2B cancer causing agent (possibly carcinogenic to humans).

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4. FIRST AID MEASURES

Eye Contact:

Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.

Skin contact:

Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse,

Ingestion:

Give the victim one or two glasses of water or milk to drink. Never give anything by mouth to an unconscious person. IMMEDIATELY SEEK MEDICAL ATTENTION.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel, seek immediate medical attention.

5 FIRE FIGHTING MEASURES

Flash Point: Not applicable

Flammable Limits in Air (Lower): Not applicable

Flammable Limits in Air (upper): Not applicable

Auto ignition: Not applicable

Fire Fighting Extinguishing Media:

Use carbon dioxide, foam, dry chemical or water fog to extinguish fire. Fire Fighting Equipment:

wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use.

Fire Fighting Instructions:

Containers of this material may build up pressure if exposed to heat (fire), use water spray to cool fire-exposed containers. **Fire and Explosion Hazards:**

This material will not burn unless it is evaporated to dryness. Closed containers may rupture when exposed to extreme heat. **Hazardous Combustion Products:**

irritating and toxic gases, vapors, and dusts may be generated and released during combustion.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:

Barricade the area to restrict access. **SMALL SPILL:** Absorb the liquid with inert material (such as dry sand or earth) and place it in a chemical waste container. **LARGE SPILL:** Persons not wearing protective equipment (see Section 8) should be evacuated from area of spill until cleanup has been completed. Stop leak at source when it is safe to do so. Dike and pump the liquid into waste containers. Prevent spilled material from 1) contaminating soil, 2) entering sanitary sewers, storm sewers, and drainage systems, and 3) entering bodies of water or ditches that lead to waterways. See Section 8 for exposure controls and personal protection equipment recommendations.

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7. HANDLING AND STORAGE

Hazards and Precautions: IRRITANT. Avoid skin contact. Avoid eye contact. Avoid breathing vapor. Keep container closed, use only in well ventilated areas. Wash thoroughly after handling.

Handling information:

An eyewash station and a safety shower should be readily accessible to workers wherever this material is stored or used.

Storage information:

Keep from freezing. Store in a dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

The American Conference of Governmental industrial Hygienists (ACGIH) has established a Threshold Limit Value (TLV) of 10 ppm or 35 mg/m³ for vinyl acetate based on an 8-hour Time weighted Average (TWA). The ACGIH has also established a 15 ppm or 53 mg/m³ 15-minute Short Term Exposure Limit (STEL) for vinyl acetate. The National institute of occupational safety and Health has established a Recommended Exposure Limit (REL) of 4ppm as a 15-minute ceiling value for vinyl acetate. The American conference of Governmental industrial Hygienists (ACGIH) have established, for ethylene glycol, aerosol, Threshold Limit values (TLV) of 100 mg/m³ Short Term Exposure Limit (STEL)-Ceiling, not to be exceeded at any time.

Engineering Controls:

Use general ventilation to maintain airborne concentrations to levels that are below regulatory and recommended occupational exposure limits, see occupational exposure limits in Section 2.

Eye Protection:

Wear 1) safety glasses with side shields and a face shield or 2) goggles and a face shield.

Skin Protection:

Nitrile, neoprene (R), or rubber gloves should provide protection against skin contact. Respiratory

Protection:

A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

White Liquid

Odor:

Slight acetic

Physical State:

Liquid

Solubility in water:

Dispersible

Specific Gravity:

1.05 (water = 1) at 25 degrees F (-4 degrees c)

Boiling Point:

212 degrees F (100 degrees c) water

Freezing Point:

0 degrees c (32 degrees F) water

Evaporation Rate:

< 1 (BUAC=1)

Vapor Density:

1 (AIR=1)

% Volatile:

22 - 26 %

VOC Content:

< 1 %

pH:

4 - 5.5

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10. STABILITY AND REACTIVITY

Stability:

Stable at normal temperatures and storage conditions,

Incompatibility:

No incompatibilities have been identified.

Hazardous Decomposition Products:

Thermal decomposition may form: Acetic acid and Acrolein. Thermal decomposition may produce various hydrocarbons and irritating, acrid vapors. Hazardous

Polymerization:

Hazardous polymerization will NOT occur.

Conditions to Avoid:

Freezing temperatures (less than 32 degrees F or 0 degrees C).

11. TOXICOLOGICAL INFORMATION

Acute Eye Toxicity:

Vinyl acetate monomer: (rabbit), mild irritation with 500mg for 24 hour exposure.

Acute skin Toxicity:

vinyl acetate monomer: dermal LD50 (rabbit), 2.3 g / kg.

Acute Inhalation Toxicity:

Vinyl acetate monomer: inhalation LC50 (rat), 3,680 - 4,490 ppm / 4 hr; (rabbit), 2,511 - 2,800 ppm / 4 hr; (mouse) 1,460 - 3,010 ppm / 4 hr; (guinea pig) 4,000 - 5,200 ppm / 4 hr.

Acute Oral Toxicity:

Vinyl acetate monomer: oral LD50 (rat), 2.9 g / kg.

Chronic Carcinogenicity:

Vinyl acetate monomer is classified as a 2B (possibly carcinogenic to humans) agent by the international Agency for Research on Cancer (IARC). The American Conference of Governmental Industrial Hygienists (ACGIH) has adopted the listing of vinyl acetate as "A3-Animal Carcinogen." The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that are not considered relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure. An inhalation study using laboratory animals exposed to high concentrations of vinyl acetate monomer for 6 hours per day, 5 days per week over a two year period resulted in the development of nasal tumors. Some of these tumors were shown to be carcinomas. However, there is not sufficient evidence to indicate that vinyl acetate monomer may cause cancer in humans.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data is available.

Environmental Fate:

No data is available.

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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Not a RCRA hazardous waste. Disposal of this material is not regulated under RCRA. Consult federal, state and local regulations to ensure that this material and its containers, if discarded, is disposed of in compliance with all regulatory requirements.

RCRA Hazard Class:

NOT A RCRA HAZARDOUS WASTE: when discarded in its purchased form, this material would not be regulated as a RCRA Hazardous waste under 40 CFR 261,

14. TRANSPORT INFORMATION

DOT / IATA / IMDG / TDG:

Proper shipping Name:

Technical shipping Name (If n.o.s.):

Hazard class:

Label:

Placard:

Marine Pollutant:

ERG Number:

Bulk and Non-Bulk

NOT REGULATED

None

None

None

None

None

None

Reportable Quantity: Not applicable

Additional information:

No reportable quantities for purposes of transportation regulations

15. REGULATORY INFORMATION

SARA Title III: Section 304 - CERCLA:

Vinyl acetate monomer (CAS# 108-05-4): Reportable Quantity = 5,000 lb. Ethylene

Glycol (CAS# 107-21-1): Reportable Quantity = 5,000 lb.

SARA Title in: section 313 Toxic chemical List (TCL): Vinyl

Acetate (108-05-4) Ethylene Glycol (107-21-1)

TSCA Section 8(b) - inventory status:

All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

TSCA section 12(b) - Export Notification:

This material does not contain any components that are subject to the US Toxic Substances control Act (TSCA) section 12(b) Export Notification requirements.

Canadian inventory status:

All components of this material are listed on the Canadian Domestic Substances List (DSL).

Canadian WHMIS:

This material is classified by the Canadian workplace Hazardous Material information System as: D2A (materials causing other toxic effects, very toxic material)

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California Proposition 65:

W A R N I N G : This material contains a chemical known to the State of California to cause cancer. The California Safe Drinking water and Toxic Enforcement Act of 1986 requires that clear and reasonable warning be given prior to exposing any person to this chemical: trace amounts of Acetaldehyde

Additional Canadian Regulatory information:

This product contains the following chemical(s) listed on the WHMIS ingredient Disclosure List at or above the specified concentration limit: Ethylene Glycol (CAS# 107-21-1) This product contains the following chemical(s) subject to Canadian National Pollutant Release inventory (NPRI) reporting: Ethylene Glycol (CAS# 107-21-1)

16. OTHER INFORMATION

Prepared By: Butterfield Color®, Inc

Disclaimer:

This information is provided in good faith and is correct to the best of Butterfield Color's® knowledge as of the date hereof and is designed to assist our customers; however, Butterfield Color® makes no representation as to its completeness or accuracy. We require customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications. Any use which Butterfield Color® customers or third parties make of this information, or any reliance on, or decisions made based upon it, are the responsibility of such customer or third party. Butterfield Color® disclaims responsibility for damages, or liability, of any kind resulting from the use of this information. THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES. IN NO EVENT SHALL Butterfield Color BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.