

MATERIAL SAFETY DATA SHEET (MSDS)



E. VERNON 643 Martin Ave. • Suite 3
Rohnert Park CA 94928
Voice: (707) 584-9384
Fax: (707) 584-8712

www.evhill.com • info@evhill.com

Revision Date: 1/16/2003
For the following products:
Safe-Vue™ Colored Smoke Candles

Also read and understand the separate *Product Information Sheet* before using or handling these products.

SECTION I: MATERIAL IDENTIFICATION

Material Name: *Safe-Vue™* Colored Smoke Candles **UN Number:** 0197 1.4G
Chemical Family: N/A **CAS Registry Number:** none
Other Designations: Smoke Signals, *Safe-Vue™* Colored Smoke For Air-Flow Studies; Signals, Smoke, 1.4G, UN0197

SECTION II: INGREDIENTS AND HAZARDS

Component	Amount	Hazard Data
Trade Secret: Pyrotechnic article designed to produce fire, smoke & noise. None of the ingredients have materials which are listed in 29 CFR 1910.119 appendix A, as a toxic substance and there are no known exposures to hazardous chemicals upon ignition.		

SECTION III: PHYSICAL AND CHEMICAL CHARACTERISTICS (Fire and Explosion Data)

Boiling Point: n/a **Specific Gravity (H₂O=1):** n/a
Vapor Pressure at 15°C: n/a **Evap. Rate:** n/a
Vapor Density (Air=1): n/a **% Volatile By Volume:** n/a
Solubility in Water: Yes **Reactivity in Water:** Slight
Appearance and Odor: Odorless Powder
Flash Point: n/a **Autoignition Temp.:** n/a
Flammability Limits in Air: n/a **Extinguishing Media:** none
Special Fire Fighting Procedures: Do not use suffocation methods -- pyrotechnic devices contain their own oxygen, allow devices to burn and prevent spread of fire.
Unusual Fire and Explosion Hazards: Pyrotechnic articles will burn rapidly in the event of fire.

SECTION IV: PHYSICAL HAZARDS

Stable: Yes
Conditions to Avoid: Open Flame, Smoking
Incompatible With: Exposure to moisture may cause items to deteriorate.
Hazardous Decomposition Products: Nuisance Dust
Hazardous Polymerization: Will not occur.

SECTION V: HEALTH HAZARDS

Threshold Limit Values: OSHA nuisance dust limit of 15mg/m³ or ACGTH nuisance dust value of 10mg/m³ for the eight hour time weighted average.
Routes of Entry: *Eye Contact* - can severely irritate; *Skin Contact* - can irritate; *Inhalation* - treat as a mineral dust irritant to the respiratory tract; *Ingestion* - expected to be practically nontoxic.
Signs & Symptoms: *Acute Overexposure* - transient cough, shortness of breath; *Chronic Overexposure* - pulmonary inflammation.
Chemical Listed Carcinogen or Potential: National Toxicology Program - No; IARC Monographs - No; OSHA - No.

SECTION VI: EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with large amounts of water. If irritation persists, seek medical attention.

Skin Contact: Wash with soap and water. If irritation persists, seek medical attention.

Inhalation: Remove victim to fresh air. Seek medical attention if discomfort continues.

Ingestion: Give large amounts of water and induce vomiting. Seek medical attention.

SECTION VII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Dust mask where dustiness is prevalent or TLV exceeded. Mechanical filter respirator if exposure is prolonged.

Ventilation: Local and/or general mechanical ventilation is recommended.

Protective Gloves: Impervious gloves.

Eye Protection: Recommended as a mechanical barrier for prolonged exposure.

Other Protective Equipment: If irritation occurs, long sleeves and impervious gloves should be worn.

SECTION VIII: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions When Handling or Storing: Avoid open flames, smoke and high temperatures. Store in a cool, dry place and in accordance with all local, state and federal laws and regulations.

Other Precautions: Avoid friction, impact and electrostatic discharge.

Spill or Release Procedure: Gently sweep any spills. Immediately hose down area thoroughly.

Waste Disposal: Dispose of in compliance with local, state and federal laws and regulations.

Keep product out of the reach of children. Use only in a well-ventilated place.

Do not use or store around food or food products. Before eating, drinking or smoking, hands and face must be thoroughly washed.

Product should be used or handled only by those familiar with all safety documentation.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS

Health - 1 Flammability - 3 Reactivity - 1

Hazard Index: 4=Severe Hazard; 3=Serious Hazard; 2=Moderate Hazard; 1=Slight Hazard; 0=Minimal Hazard

This MSDS is provided as a guideline for the use of our products only. E. Vernon Hill, Inc. disclaims responsibility for damage or injury resulting from the improper use of these products.

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions of product use are beyond our control, all risks of use are assumed by the user.

Users are responsible for verifying this data under their own operating conditions to determine whether the product is suitable for their particular purposes.

Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents.

Also read and understand the separate *Product Information Sheet* before using or handling these products.