

Telephone (704) 987-4555  
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**ORANGE CHALK – HI-VIS**  
**GREEN CHALK – HI-VIS**

Rev 2 issued 2/2008

**MATERIAL SAFETY DATA SHEET**

**BLAZE ORANGE & STELLAR GREEN FLOURESCENT MARKING CHALK**

PRODUCT/MATERIAL: Blaze Orange & Green Fluorescen Marking Chalk  
 SUPPLIER: Delta Colours, Inc  
 ADDRESS: 6369 Peachtree St NE  
 Norcross, GA 30071  
 PHONE: 770-277-8819

SECTION 1 **PRODUCT IDENTIFICATION**

TRADE NAME: Blaze Fluorescent Orange Marking Chalk  
 DESCRIPTION: Powdered Chalk  
 GENERAL USE: Refill for self-chalking chalk line reels

Exposure limit 8-hour TWA  
 (mg/m<sup>3</sup>)

Component	CAS No.	% by weight	OSHA PEL	ACGIH TLV	NIOSH REL
Calcium Carbonate (Limestone)	471-34-1 (1317-65-3)	75-85	15 <sup>(1)</sup> 5 <sup>(2)</sup>	10 <sup>(1)</sup>	15 <sup>(1)</sup> 5 <sup>(2)</sup>
Magnesite	546-93-0	4-6	15 <sup>(1)</sup> 5 <sup>(2)</sup>	10 <sup>(1)</sup>	15 <sup>(1)</sup> 5 <sup>(2)</sup>
Dyed Toluene Sulfon-amide Resin	25067-00-9	Not Available	15 <sup>(1)</sup> 5 <sup>(2)</sup>	10 <sup>(1)</sup>	
Silica-Crystalline Quartz <sup>(3)</sup>	14808-60-7	0.01-1.5	2.9 <sup>(2,4)</sup>	0.1 <sup>(2)</sup>	

1. Total dust
2. Respirable dust
3. Calcium carbonate may contain crystalline silica at levels between 0.01 and 1.5% and varies naturally.
4. Using the OSHA quartz formula. this PEL was calculated assuming a crystalline silica content of 1.5% in this ingredient.

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**SECTION 2**

**HAZARDOUS INGREDIENTS**

Hazardous material Identification System (HMIS):  
Health 1, Flammability 0, Reactivity 0.

**EMERGENCY OVERVIEW:** Non-combustible orange or green solid powder with no odor. Free formaldehyde may be released at temperatures above 300<sup>0</sup>F. Exposure to large quantities of this material may cause acute irritation of eyes and respiratory system.

**POTENTIAL HEALTH EFFECTS:** Exposure to marking chalk is primarily through contact with dust from this material created during handling and use of the chalk. Acute health effects include minor irritation of the eyes, skin and respiratory tract.

**INHALATION:** Acute exposure to dust levels above exposure limits (Section2) may cause irritation of the respiratory system with sneezing and coughing.

**EYE CONTACT:** Contact with dust or powder may cause mechanical irritation and pain, watering of eyes, and eyelid inflammation.

**SKIN CONTACT:** Prolonged skin contact may produce moderate irritation.

**INGESTION:** No known effects

**CHRONIC:** Prolonged inhalation exposure to crystalline silica dust above exposure limits may cause delayed, chronic lung injury (silicosis). When the product is used as intended, dust levels should not exceed exposure limits. See Section 1 and 10.

**SECTION 3**

**FIRST AID MEASURES**

**INHALATION:** Remove exposed person to fresh air; restore and/or support his or her breathing as needed . Encourage the victim to cough, spit out, and blow nose to remove dust

**EYE CONTACT:** Rubbing eyes may cause abrasions. Gently lift the eyelids and flush immediately and continuously with copious amounts of water for at least 15 minutes or until the person (s) is transported to an emergency medical facility.

**SKIN CONTACT:** Wet clothing first to minimize dust generation, then remove contaminated clothing. Do not shake or blow dust off clothing or body. Wash affected skin with soap and water. Launder contaminated clothing before wearing again.

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**INGESTION:** Never give anything by mouth to an unconscious person. If ingested, have that conscious person drink 2 to 3 glasses of water. Consult with a physician or medically trained personnel at a poison control center. Unless medically trained personnel indicate otherwise, do not induce vomiting.

After first aid, get appropriate in-plant, paramedic, or community medical support.

#### SECTION: 4 **FIRE-FIGHTING MEASURES**

**FLASHPOINT:** None Identified

**FLAMMABLE LIMITS:** Treat as a flammable dust in the finely divided and suspended state. Dust cloud formation may create a dust cloud explosion hazard.

**AUTO IGNITION TEMPERATURE:** None identified

**HAZARDOUS COMBUSTION PRODUCTS:** Formaldehyde vapor is released at temperatures above 300° F.

**EXTINGUISHING MEDIA:** This material is non-combustible. Use extinguishing agents that will put out the surrounding fire.

**FIRE-FIGHTING INSTRUCTIONS:** In case of fire involving this material, do not enter the fire area without proper protective equipment including self-contained breathing apparatus. Toxic gas may be emitted.

#### SECTION: 5 **ACCIDENTAL-RELEASE MEASURES**

Notify safety personnel of spills or leaks. Cleanup personnel need protection against eye contact and dust inhalation. Avoid creating dust during cleanup. Shovel the material or use H.E. P.A. filtered vacuum, wet sweeping compound or water for cleanup so that airborne dust does not exceed exposure limits. Do not dry sweep. Do not blow with air which could cause a dusting problem. Follow applicable OSHA regulations (29 CFR 1910.120).

#### SECTION: 6 **HANDLING AND STORAGE**

**HANDLING:** Store this material in a closed container and handle so as to minimize dusting or any material leaks. Practice good personal hygiene, (hand washing etc) after using this material, especially before eating, drinking, smoking or applying cosmetics.

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### SECTION : 7            **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Use sufficient general area ventilation. Local exhaust ventilation should be used if airborne levels of dust exceed the exposure limits cited in Section 2.

**RESPIRATORY PROTECTION:** When engineering controls are not sufficient to reduce exposure to below the limits cited in Section 2, respiratory protection should be used. When respiratory protection is required, follow OSHA respirator regulations (29 CFR 1910.134) and wear a NIOSH-approved respirator for organic vapors and dust.

**SKIN PROTECTION:** Gloves are recommended

**EYE PROTECTION:** Wear protective eyeglasses or chemical safety goggles, where eye contact is possible, as required by OSHA regulations (29 CFR 1910.133)

### SECTION : 8            **PHYSICAL AND CHEMICAL PROPERTIES**

BOILING POINT (°F):	not applicable
MELTING POINT:	decomposes at 1517°F (825°C)
VAPOR PRESSURE (at 20°C):	not applicable
PERCENT VOLATILE:	0
VAPOR DENSITY (AIR =1):	not applicable
SOLUBILITY IN WATER:	<0.0002 (Trace)
CO-EFFICIENT WATER/OIL DIST.	not applicable
SPECIFIC GRAVITY (H <sub>2</sub> O)=1):	2.6-2.7
pH (at 10% solids)	7.5-8.5
APPEARANCE AND ODOR:	bright orange powder with no odor.

### SECTION 9            **STABILITY AND REACTIVITY**

**GENERAL:** This product is stable under normal storage and handling conditions.

**CONDITIONS TO AVOID:** Excessive dust in the vicinity of electrical or spark-producing equipment.

**CHEMICAL INCOMPATIBILITIES:** Strong oxidizing agents. Ignites on contact with fluorine. Reacts with strong acids to liberate carbon dioxide.

**HAZARDOUS DECOMPOSITION PRODUCTS:** formaldehyde, carbon dioxide, carbon monoxide, oxides of nitrogen and oxides of sulfur.

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### SECTION 10: TOXICOLOGICAL INFORMATION

- EYE:** (Calcium carbonate)  
Rabbit: 750 µg administered for 24 hours produces severe irritation
- SKIN:** (Calcium carbonate)  
Rabbit: 500 mg administered for 24 hours produces moderate irritation
- INGESTION:** (Calcium carbonate)  
Rat: LD<sub>50</sub>: 6450 mg/kg
- INHALATION:** (Silica, Crystalline-Quartz)  
Human: LC<sub>L0</sub>: 300 µg/m<sup>3</sup> intermittent exposure over a 10 year period produced pulmonary system effects.
- SUBCHRONIC:** Target organs include eyes, respiratory tract, and skin
- CHRONIC/CARCINOGENICITY:** The International Agency for research on Cancer (IARC) has designated Silica, Crystalline-Quartz: Group 2A, probably carcinogenic to humans, sufficient evidence in laboratory animals, National Toxicology Program (NTP), Group 2, reasonably anticipated to be a carcinogen.
- TERATOLOGY:** No data
- REPRODUCTION:** No data
- MUTAGENICITY:** No data

### SECTION 11: ECOLOGICAL INFORMATION

Limestone is not classified as a "toxic pollutant" or a "hazardous substance" under Section 307 and 311 of the Clean Water Act.

### SECTION 12: DISPOSAL CONSIDERATIONS

RCRA Hazardous Waste (40 CFR 261); This material is not a listed waste. Review Federal, state and

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local government requirements prior to disposal. Disposal by landfill may be acceptable.

Consult an expert on the disposal of recovered material. Ensure conformity with local disposal regulations.

### SECTION 13            **TRANSPORT INFORMATION (Not all inclusive) (49 CFR 172.101-2)**

Department of Transportation hazard class: Non-regulated material.

### SECTION 14:            **REGULATORY INFORMATION**

#### U.S. Federal Regulations

OSHA: Listed as an air contaminant (29 CFR 1910.1000) Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

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

CERCLA: Hazardous substance, (40 CFR 302.4) Not listed.

Extremely Hazardous Substance (40 CFR 355) Not listed

SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title 111) and is considered, under applicable definitions to meet the following category. An immediate (Acute) and chronic health hazard.

Chemicals subject to the reporting requirements of Section 313 or Title 111 of SARA and 40 CFR Part 372: None

STATE REGULATIONS: California's "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65)

This product contains a chemical known to the State of California to cause cancer.

**NOTICE:**        The information and recommendations presented herein are based upon data which is considered to be accurate, however, Delta Colours Inc. makes no guarantee or warranty either expressed or implied, of the accuracy or completeness of these data and recommendations. The information herein may not be valid if product is used in combination with other products or in any



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process. The using is responsible for the suitability and completeness of this information for his/her own particular use.