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MATERIAL DATA SAFETY SHEET

PERMA-CAST® SHAKE-ON COLOR HARDENER.....Page 1 of 3
 DATE PREPARED: June 1, 1999
 MSDS No.:102

1. PRODUCT IDENTIFICATION AND INFORMATION

Product Identifier: Butterfield 102
 Chemical Notation or Structure: Mixture
 General Information: Butterfield Color® 630) 906-1980
 Emergency Information: CHEMTREC 800-424-9300

2. INGREDIENTS

	<u>WT. %</u>	<u>CAS Registry</u>
Silica-Crystalline Quartz	----	14808-60-7
Portland Cement	----	65997-15-1
Metal Oxides	----	Varies

*Notes: Metal oxides may contain chromium or iron

	EXPOSURE LIMITS 8HRS. TWA		
	OSHA PEL mg/m ₃	ACGIH TLV mg/m ₃	NIOSH REL mg/
Silica	10/%SiO ₂ +2	0.1	0.05
Portland Cement	15 (total dust) 5 (respirable dust)	10 ----	10 (total dust) 5(respirable dust)
Chromium III	0.5	0.5	0.5
Iron	10	5	5

3. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: Not Applicable
 Specific Gravity (H₂O=1): > 1
 Solubility in Water: Slightly Soluble
 Boiling Point: Not Applicable

Vapor Density: Not Applicable
Evaporation Rate: Not Applicable
Melting Point: Not Applicable

Appearance: Colored Powder
Odor: No Odor

4. FIRE AND EXPLOSION

Flashpoint and Method: None
Flammable Limits: None
Auto-ignition Temperature: None
Fire Extinguishing Media: Non-combustible
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

5. REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Materials and Conditions to Avoid: Strong oxidizers
Hazardous Decomposition Products: None

6. HEALTH

Inhalation: Shortness of breath, coughing and reduced pulmonary function. Long-term excessive exposure to cobalt-containing products may cause pulmonary disease. Long-term excessive exposure to respirable crystalline silica may cause silicosis. Acute developing silicosis may occur in a short period of time in heavy exposures.

Eyes and Skin: May cause eye and skin irritation, burns and dermatitis. An allergic Dermatitis may occur from contact with cobalt-containing products.

Ingestion: May cause gastrointestinal tract irritation.

Medical Conditions Aggravated: Pre-existing chronic respiratory, eye and skin diseases.

Carcinogenicity:

NTP- Yes IARC- Yes OSHA- No NIOSH- Yes

Respirable crystalline silica and cobalt are listed carcinogens.

First Aid Measures:

Inhalation- Remove exposed person to fresh air. Get medical attention if symptoms persist.

Eye Contact- Flush eyes with water for at least 15 minutes. Get medical attention if symptoms persist.

Skin Contact- Wash with mild soap and water. Get medical attention if symptoms persist.

Ingestion- Get medical attention.

7. HANDLING AND STORAGE

General: Store in cool, dry location. Avoid creating excessive dust in the presence of an ignition source.

Spill Cleanup: Isolate and contain spill. Avoid excessive dust generation and runoff into a sewer or waterway. Collect and reuse, if possible. Place waste in a disposal container, and dispose of in accordance with local, state and federal regulations.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Use only in well ventilated areas. Ventilation should be sufficient to maintain airborne levels of ingredients below the acceptable limits.

Skin and Eye Protection: Impervious gloves, safety glasses with side shields or safety goggles, and suitable clothing to minimize skin contact recommended.

Respiratory Protection: Use only NIOSH- approved respirators if necessary to prevent excessive dust inhalation.

Work Practices: Avoid contact with skin and eyes. Avoid breathing dust. Wash thoroughly with soap and water. Remove and clean work clothing.

This Material Safety Data Sheet (MSDS) was developed from information contained in published MSDSs and standard references. Butterfield Color® makes no guarantees or warranty, either expressed or implied, as to the accuracy or completeness of the data contained in this MSDS.