

CERAMCO

MATERIAL SAFETY DATA SHEET

Issued on July 3, 1997

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **Colorlogic Refractory Die Material Spacer Liquid**

PRODUCT CODE: 215100, 215104, 215200

MANUFACTURER/SUPPLIER: Ceramco
Six Terri Lane
Burlington, NJ 08016
USA
Phone number: (800) 487-0100

Ceramco Europe Ltd.
Hamm Moor Lane, Addlestone
Weybridge, Surrey
KT15 2SE England
Phone number: 0-1932-856240

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SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

DESCRIPTION: Water-based solution.

HAZARDOUS INGREDIENTS:

Component	CAS No	Weight %	OSHA	ACGIH	HAZARDS
Silica, Amorphous	112926-00-8	10-30			10mg/m3
1,2-Propanediol, 99%	57-55-6	1-5%	ND	ND	irritant, poison

SECTION III - HAZARDS IDENTIFICATION

NFPA HAZARD DESIGNATIONS: Health: 1 (Minimal)
Flammability: 1 (Minimal)
Reactivity: 1 (Minimal)

IMPORTANT HAZARD INFORMATION: Irritant.

SECTION IV - FIRST-AID MEASURES

GENERAL INFORMATION: None.

AFTER INHALATION: Remove to fresh air. Seek medical assistance if irritation persists.

AFTER SKIN CONTACT: Wash skin with soap/water. Seek medical attention if irritation persists.

AFTER EYE CONTACT: Immediately flush eyes with copious quantities of water for 15 minutes; seek medical attention if irritation or discomfort persists.

AFTER SWALLOWING: Do not induce vomiting. Give water and seek medical attention.

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SECTION V - FIRE-FIGHTING MEASURES

FIRE EXTINGUISHING AGENTS: Carbon dioxide, dry chemical, Halon or foam.

SPECIAL PROTECTIVE EQUIPMENT: None for laboratory size quantities. For large quantities, positive pressure, self-contained breathing apparatus.

SECTION VI - ACCIDENTAL RELEASE MEASURES

PERSON-RELATED SAFETY PRECAUTIONS: Avoid eye contact.

ENVIRONMENTAL PROTECTION: Avoid conditions which may result in dispersion to streams or waterways.

MEASURES FOR CLEANING/COLLECTING: Clean-up with an absorbent material and dispose of according to local regulations.

ADDITIONAL INFORMATION: No additional information.

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SECTION VII - HANDLING AND STORAGE

INFORMATION FOR SAFE HANDLING: Store away from food and beverages. Keep containers closed when not in use.
 PROTECTION AGAINST EXPLOSIONS/FIRES: Store away from ignition sources. Protect from heat, sparks, and flame.
 STORAGE: Store in cool location.
 COMMON STORAGE FACILITIES: Avoid oxidizing agents and silver nitrate.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: General exhaust.
 EYE PROTECTION: Safety goggles.
 SKIN PROTECTION: Rubber gloves.
 RESPIRATORY PROTECTION: None required except when potential for inhalation exposure to product dust, mist or aerosols of applicable exposure limits exists, then use NIOSH/MSHA approved respirators.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
 FORM: Fluid
 COLOR: Colorless
 ODOR: None
 pH: Not Determined
 MELTING POINT: 0°C
 BOILING POINT: 100°C
 FLASH POINT: 103°C for propanediol, majority will not burn
 AUTOIGNITION TEMPERATURE: Not determined
 DANGER OF EXPLOSION: None known.
 FLAMMABILITY: Not determined
 VAPOR PRESSURE: Not determined
 DENSITY: 0.9 gm/cc
 SPECIFIC GRAVITY: 1.1-1.4 gm/cc
 SOLUBILITY/ MISCIBILITY: Soluble in water

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable
 HAZARDOUS POLYMERIZATION: Will not occur.
 CONDITIONS TO AVOID: Heat, sparks, open flames.
 MATERIALS TO AVOID: Oxidizing agents and silver nitrate.
 DECOMPOSITION PRODUCTS: Propionaldehydes.

SECTION XI - TOXICOLOGICAL INFORMATION

CARCINOGENEITY: NTP: no IARC: no Z LIST: no OSHA REG: no
 EFFECTS OF OVEREXPOSURE:
 SKIN CONTACT: May cause irritation.
 EYE CONTACT: May cause irritation.
 INHALATION: May cause irritation.
 SENSITIZATION: None known.
 CHRONIC EFFECTS: None known.

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SECTION XII - ECOLOGICAL INFORMATION

Stable organic liquid, does not degrade, partially evaporate.

SECTION XIII - DISPOSAL CONSIDERATION

PRODUCT DISPOSAL:	Dispose of in accordance with federal, state, and local regulations for relatively not-toxic organics.
CONTAMINATED PACKAGING:	No special measures required.
ADDITIONAL DISPOSAL INFORMATION:	Local disposal regulations may exist.

SECTION XIV - TRANSPORT INFORMATION

Product is not regulated.

SECTION XV - REGULATORY INFORMATION

SARA/TITLE III HAZARD CATEGORIES AND LISTS:
No regulatory information available for this product.

SECTION XVI - OTHER INFORMATION

INTERNATIONAL RISK PHRASES:	20, 21, 26/27/38.
INTERNATIONAL SAFETY PHRASES:	7,36/37/39.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.