



## MATERIAL SAFETY DATA SHEET

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IN CASE OF SPILL EMERGENCY, DAY OR NIGHT, CALL CHEMTREC 1-800-424-9300

### SECTION I PRODUCT IDENTIFICATION

**IDENTITY: LIQUID COLORANT**

### SECTION II COMPOSITIONAL INFORMATION

<u>Ingredients</u>	<u>CAS Reg No.</u>	<u>APPROX. WT. %</u>	<u>OSHA PEL</u>	<u>ACGIH TVL</u>
Ethylene Glycol	107-21-1	24	50 ppm (ceiling)	127 mg/m <sup>3</sup> (ceiling)
Diethylene Glycol	111-46-6	6	n.e.	n.e.
Surfactants (Proprietary)		10	n.e.	n.e.
Talc	14807-96-6	14	20 mp/cf (resp.dust)	2 mg/m <sup>3</sup> (resp. dust)
Organic Phosphate	5071P	1	5 mg/m <sup>3</sup>	2.2 mg/m <sup>3</sup>
Kaolin	1332-58-7	2	5 mg/m <sup>3</sup> (resp. dust)	2 mg/m <sup>3</sup> (resp. dust)
Quartz, Silica	14808-60-7	0.2	0.1 mg/m <sup>3</sup> (resp. dust)	
Carbon Black	1333-86-4	2	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>
Manganese Oxide and Manganese Compounds	1313-13-9	1	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Aluminum Oxide	1344-28-1	0.2	10 mg/m <sup>3</sup> (resp.dust)	
Pigments (TiO <sub>2</sub> , Yellow 74, Green, Blue 15, Iron Oxide, Violet 19 & 23 Red 123 & 188)		24	15 mg/m <sup>3</sup> (resp.dust)	10 mg/m <sup>3</sup> (resp.dust)
Water	NON HAZ	16 - 65	n.e.	n.e.

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<b>SECTION III</b>	<b>PHYSICAL PROPERTY INFORMATION</b>
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Boiling Point:	212°F (100°C)
Freezing Point:	32°F (0°)
Vapor Pressure @ 68°F:	17 mm of Hg
Vapor Density (air = 1):	Less than 1
Solubility in Water:	Appreciable
Appearance and Odor:	Color varies; glycol-like odor
Specific Gravity (water = 1):	Greater than 1
Percentage Volatile (by weight):	Not determined
Evaporation Rate (BUTYL ACETATE = 1):	Less than 1
Flash Point, degrees F:	Not determined
Flammable Limits In Air, % LEL:	Not applicable
% UEL:	Not applicable
pH:	Variable

<b>SECTION IV</b>	<b>FIRE AND EXPLOSION HAZARD INFORMATION</b>
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This product, as supplied, is not considered a fire hazard. When involved in a fire, it does not contribute any unusual hazards. Use standard fire fighting techniques to extinguish fires involving this material: use water spray, dry chemicals or carbon dioxide.

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

<b>SECTION V</b>	<b>HEALTH HAZARD INFORMATION</b>
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**EFFECTS OF OVEREXPOSURE**

Primary routes of exposure are inhalation and skin contact.

Inhalation: Can cause mild irritation to respiratory tract. Silica dust and carbon black dust may cause heart and lung effects. Overexposure to crystalline silica dust may cause lung cancer (IRAC, OSHA) based on animal testing.

Overexposure to talc dust may cause talcosis.

Skin Contact: Moderate skin irritant upon repeated or prolonged contact.

Eye Contact: Warning - Severe eye irritant.

Ingestion: Harmful if swallowed. Contains material, which may cause kidney, liver and central nervous system effects.

Delayed Effects: Prolonged or repeated exposure to ethylene glycol can cause liver and kidney damage.

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<b>SECTION V (continued)</b>	<b>HEALTH HAZARD INFORMATION</b>
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**EMERGENCY AND FIRST AID PROCEDURES**

Inhalation: Move subject to fresh air.

Eye and Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. See physician if irritation persists. Wash affected skin areas with soap and water.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person. See "NOTE TO PHYSICIAN" in Section X.

**NOTE:** Animal test results suggest that ethylene glycol is to be regarded as an animal teratogen; however, there is currently no available information to suggest that ethylene glycol has caused birth defects in humans.

<b>SECTION VI</b>	<b>REACTIVITY INFORMATION</b>
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Hazardous Polymerization: Cannot occur.

Stability: Stable.

Incompatibility: Avoid contact with strong oxidizing agents.

<b>SECTION VII</b>	<b>SPILL OR LEAK PROCEDURE INFORMATION</b>
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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Obey relevant local, state and federal laws and regulations. Do not contaminate any lakes, streams, ponds or underground water supply.

<b>SECTION VIII</b>	<b>PERSONAL PROTECTION INFORMATION</b>
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Respiratory Protection: Not required under normal conditions of use.

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse affects).

Protective Gloves: Wear resistant gloves (consult your safety equipment supplier).

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses. Consult your safety representative.

Other Protective Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

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<b>SECTION IX</b>	<b>STORAGE AND HANDLING INFORMATION</b>
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Storage Temperature: Max 49°C/120°F      Min 1°C/34°F

Precautionary Handling: Keep from freezing; product may congeal or stratify. Keep material from direct sunlight. Store in a sheltered area.

<b>SECTION X</b>	<b>TOXICITY INFORMATION</b>
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The effects of overexposure shown in Section V are based on information about similar materials and on toxicity profiles for the components used in these concentrates.

<b>SECTION XI</b>	<b>REGULATORY INFORMATION</b>
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**WORKPLACE CLASSIFICATIONS:** This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200). This product is not a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

**EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW (SARA TITLE 3)**

Section 311/312 Categorizations (40CFR 370): This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

Section 313 Information (40CFR 372): This product does not contain a chemical, which is listed in Section 313 above deminimis concentrations.

**CERCLA INFORMATION (40CFR 302.4):** Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

**RCRA INFORMATION:** When this product becomes a waste, it is classified as a non-hazardous waster under criteria of the Resource Conservation and Recovery Act (40 CFR 261).

**CHEMICAL CONTROL LAW STATUS:** All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**STATE RIGHT-TO-KNOW LAWS:** Not applicable.

**TRANSPORTATION CLASSIFICATION:** US DOT: Hazard Class.....NONREGULATED

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<b>SECTION XI (continued)</b>	<b>REGULATORY INFORMATION</b>
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**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)**

Health Hazard = 2  
Flammability Hazard = 1  
Reactivity Hazard = 0  
Personal Protection = B

**SCALE:**

4 = Sever  
3 = Serious  
2 = Moderate  
1 = Slight  
0 = Minimal

**NOTE:** HMIS, NFPA and El Rey ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

<b>SECTION XII</b>	<b>ADDITIONAL INFORMATION</b>
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n.e. = Not established; n.a. = Not applicable/not available; n.d. = Not determined; NOS = Not Otherwise Specified; RQ = Reportable Quantity; resp. = Respirable dust; TLV = Threshold Limit Value; PEL = Permissible Exposure Limit; STEL = Short Term Exposure Limits (15 minutes); TWA = Time Weighted Average (8 hour); ANSI = American National Standards Institute; REL = Recommended Exposure Limits (developed by the NIOSH); NIOSH = National Institute for Occupational Safety and Health; OSHA = Occupational Safety and Health Administration; ACGIH = American Conference of Governmental Industrial Hygienists; LEL = Lower Explosive Limit; UEL = Upper Explosive Limit; ppm = parts per million; TSCA = Toxic Substance Control Act; SARA = Superfund Amendments and Reauthorization Act; DOT = Department of Transportation. WHMIS = Workplace Hazardous Materials Information System (Canadian).

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**Date: March 6, 2002**