

01016-XXXX

Product Identification Number - G5004M Revision - J



CHROMATIC
MATERIAL SAFETY DATA SHEET
For 1 Shot/Chromatic Liquid Coatings and Associated Liquid Materials

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I. CHEMICAL PRODUCT IDENTIFICATION

Product Name : **G5004 VINYL PRIMER (WATER)**

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Revision Number : 4

Revision Date : 03/29/10

Supersedes : 09/05/07

II. COMPOSITION/INFORMATION ON INGREDIENTS - (EXPOSURE LIMITS - SEE SECTION VIII)

INGREDIENT NAME	CAS #	%
Cyclic Amine	872-50-4	1.01 - 5.00
Diethylene glycol monoethyl ether	111-90-0	1.01 - 5.00
Ethylene glycol	107-21-1	1.01 - 5.00

If ingredient percentages do not total 100%, the balance is due to rounding or applies to ingredient(s) deemed nonhazardous under 29 CFR 1910.1200 (Hazard Communication Standard).

III. HAZARDS IDENTIFICATION

	HMIS
HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme * = Chronic Health Effects

Routes of Entry:

Skin contact, Eye contact, Inhalation, Absorption, Ingestion.

Medical Conditions Aggravated:

Eye disease, Skin disease including eczema and sensitization, Respiratory disease including asthma and bronchitis.

Immediate (Acute) Health Effects:

Inhalation:

Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.

Skin Contact:

Continued or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Can cause minor skin irritation, defatting, and dermatitis.

Eye Contact:

Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue. Can cause moderate irritation. Exposure may cause corneal injury.

Skin Absorption:

May be absorbed through the skin in harmful amounts. Harmful if absorbed through the skin.

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Ingestion:	Harmful if swallowed. May cause systemic poisoning. Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.
Target Organ Acute Toxicity:	Eyes, Skin, Reproductive System, Respiratory System, Heart, CNS.
Long-Term (Chronic) Health Effects:	
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. Upon prolonged or repeated exposure this product may cause sensitization. Avoid prolonged or repeated exposure. If sensitized, exposure below the TLV or PEL, or at low levels can result in respiratory irritation and shortness of breath. These asthma-type symptoms may develop immediately or be delayed up to several hours.
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. Prolonged contact with this product may cause allergic skin sensitization reactions.
Eye Contact:	Upon prolonged or repeated contact, can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Skin Absorption:	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage. Harmful if absorbed through the skin.
Carcinogenicity:	IARC: No NTP: No OSHA: No
Target Organ Chronic Toxicity:	Eyes, Skin, Respiratory Tract, Reproductive System, Kidneys, Nervous System, Heart.

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

IV. FIRST AID

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. Seek medical attention if symptoms persist.
Eyes:	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Get medical attention if irritation develops or persists. As a good general hygienic rule, if clothing comes in contact with the product, the clothing should be laundered before re-use.
Ingestion:	Seek medical advice immediately. Provide ingredients information from Section II of this MSDS to the medical care provider. Contact your local Poison Control Center (listed in the telephone book), or dial the local "Emergency" (911) number for additional information. Do not induce vomiting unless instructed to do so by a physician or other competent medical personnel. Never give anything by mouth to an unconscious person.

V. FIRE FIGHTING MEASURES**Flammability Summary:**

Flash Point:	Combustible	91 °C;	196 °F
Lower Flammable/Explosive Limit, % in air:	1.2	Upper Flammable/Explosive Limit, % in air:	9.0
Fire Hazards:	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire. This product, when dried or cured, may support combustion when subjected to sources of ignition or heat in sufficient amount.		

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.
Fire Fighting Instructions:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide, Nitrogen containing gases.

VI. ACCIDENTAL RELEASE MEASURES

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Health Consideration for Spill Response:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including: the material spilled, the quantity of the spill, and the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Spill Mitigation Procedures:

General Methods:

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. For liquid spills, dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.
 Ventilate the area by opening door and/or turning on fans and blowers.
 Retain all contaminated water for treatment.
 Avoid runoff into storm sewers and ditches that lead to waterways.

Air Release:

Water Release:

Land Spills:

VII. HANDLING AND STORAGE

Handling:

Harmful or irritating; avoid overexposure to the material. Use only in a well ventilated area. Do not get in eyes, on skin and clothing. Wash thoroughly after handling. Do not reuse containers. Avoid breathing vapors from heated material. Use with adequate ventilation.

Storage:

Store in a cool dry place. Isolate from incompatible materials.

VIII. ENGINEERING CONTROLS, PERSONAL PROTECTIVE EQUIPMENT, AND EXPOSURE LIMITS

Engineering Controls:

General room ventilation might be required to maintain operator comfort under normal conditions of use. Facilities storing or using this material should be equipped with an eyewash and safety shower. Engineering controls must be designed to meet any relevant OSHA chemical specific standards in 29 CFR 1910.

Protective Equipment:

Respiratory Tract:

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained in Section III. If a respirator is warranted, follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements.

Eyes:

Wear safety glasses with side shields when handling this product. Do not wear contact lenses. When the possibility exists for eye contact with splashing or spraying liquid, or airborne material, wear additional eye protection such as chemical splash goggles and/or face shield.

Skin:

Not normally considered a significant skin irritant. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Protective Clothing:

Wear chemically resistant gloves and apron. (Consult your safety equipment supplier).

CHEMICAL NAME	CAS #	ACGIH TLV	OSHA PEL	IDLH
Cyclic Amine	872-50-4	No TLV	No PEL established	Not determined.
Diethylene glycol monoethyl ether	111-90-0	No TLV	No PEL established	Not determined.
Ethylene glycol	107-21-1	No TLV 100 mg/m ³ Ceiling (aerosol only)	No PEL established	Not determined.

IX. PHYSICAL DATA

Appearance:

Cloudy (milky) Liquid.

Color:

Cloudy (milky)

pH:

N/A

Octanol/Water Coeff:

Not Determined.

Solubility in Water:

Complete.

Vapor Density:

Heavier than air. Vapors that evolve from this product will tend to settle and accumulate near the floor.

Evaporation Rate:

Slower than n-Butyl Acetate.

Specific Gravity/Density:

1.011 / 8.44 Lbs./G.

V.O.C.

0.93 Lbs/Gl less water & exempt solvent;

112 g/l less water & exempt solvent;

0.7 Lbs/Gl as packed

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The VOC content is determined by using a percent solids basis, less water and exempt solvents, for adhesives, coatings and inks and the calculations of EPA Reference Method 24 or equivalent ASTM method approved by the executive office.

Initial Boiling Point: 100 °C; 212 °F
Initial Freezing Point: 0 °C; 32 °F

X. STABILITY AND REACTIVITY

Stability Information: Stable under normal conditions.
Conditions to Avoid: Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.
Chemical Incompatibility: Strong oxidizing agents, Acids, Chlorinated compounds.
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide, Nitrogen containing gases.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
2-Pyrrolidinone, 1-methyl-	Oral LD50 Rat: 3914 mg/kg; Oral LD50 Mouse: 5130 mg/kg; Dermal LD50 Rabbit: 8 gm/kg
Ethanol, 2-(2-ethoxyethoxy)-	Oral LD50 Rat: 5500 mg/kg; Oral LD50 Mouse: 6600 mg/kg; Dermal LD50 Rabbit: 4200 uL/kg
Ethylene glycol	Inhalation LC50 Rat: 10876 mg/kg; Oral LD50 Rat: 4700 mg/kg; Oral LD50 Mouse: 5500 mg/kg; Dermal LD50 Rabbit: 9530 uL/kg

XII. ECOLOGICAL INFORMATION

Overview: Care should be taken to minimize releases of any industrial chemicals to the environment.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Unused Product: Waste description not determined.
Disposal Methods: Information in this MSDS is provided only as a guide. Consult with competent authority to determine proper waste disposal procedures. Clean up and dispose of waste and clean-up materials in accordance with all federal, state, and local environmental regulations.
Potential EPA Waste Codes: Not determined.

Some Components Possibly Subjected to USEPA Land Disposal Restrictions:

When disposing of unused products or any waste, the preferred options are to send to a licensed reclaimer or to permitted incinerators. There may be some other ingredients subject to LDR categories. None expected.

XIV. TRANSPORTATION INFORMATION

Agency Basic Description and Label
DOT Not regulated per DOT.

Hazardous Substance

Ethylene glycol RQ = 5000 pounds (2270 kg)

XV. REGULATORY INFORMATION**Regulation**

SARA 313 Reportable: N-Methyl-2-pyrrolidinone, Ethanol, 2-(2-ethoxyethoxy)-, Ethylene glycol

TSCA Inventory

All components of this product are listed in, or exempt from, the TSCA 8(b) Inventory.

M.S.D.S. Reportable HAP(s):

Diethylene glycol monoethyl ether, Ethylene glycol.

California Proposition 65:

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65: "WARNING: This product contains chemical(s) known to the State of California to cause cancer and birth defects, or other reproductive harm."

SARA/CERCLA Section 302:

N/A

XVI. ADDITIONAL INFORMATION

Major References: VENDOR'S MSDS'S, PAINT & COATINGS HANDBOOK, EPA'S LIST OF LISTS, AND OTHER PUBLISHED MATERIALS.

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