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 : **G4331030 UV Resist Matte Clear (4331030)**

Date Printed :	09/24/10	Revision Number :	4
Revision Date :	03/29/10	Supercedes :	09/03/07

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

INGREDIENT NAME	CAS #	%
Water - for information only	7732-18-5	50.01 - 75.00
Ethylene glycol mono-n-butyl ether	111-76-2	5.01 - 10.00
1-Methoxy-2-hydroxypropane	107-98-2	1.01 - 5.00
Dibutyl phthalate	84-74-2	1.01 - 5.00
Cyclic Amine	872-50-4	1.01 - 5.00
Fumed silica	112945-52-5	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: Inhalation, Absorption, Ingestion, Skin contact, Eye contact.

Medical Conditions Aggravated: Liver disease, Skin disease including eczema and sensitization, Eye disease, Digestive tract disease, Respiratory disease including asthma and bronchitis.

Immediate (Acute) Health Effects:

Inhalation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Harmful. Can cause systemic damage, see target organs below.

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: Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible. Can cause mild irritation.

Skin Absorption: Harmful if absorbed through the skin. May cause severe irritation and systemic damage. A single exposure is not likely to result in the product being absorbed through the skin in harmful amounts.

Ingestion: Toxic if swallowed. May cause target organ failure and/or death. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.

Target Organ Acute Toxicity: Liver, Skin, Blood, Eyes, Kidneys, Respiratory System, Lymphoid System, CNS, Digestive Tract, Reproductive System.

Long-Term (Chronic) Health Effects:

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Prolonged inhalation may be harmful. 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.

Eye Contact: Upon prolonged or repeated contact, can cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Skin Absorption Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Carcinogenicity: IARC: No NTP: No OSHA: No

Target Organ Chronic Toxicity: Respiratory System, Kidneys, Liver, Skin, Blood, Eyes, Nervous System, Digestive Tract, Reproductive System.

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.

Over exposure of laboratory animals to a high concentration (700 ppm for 7 hours) of ethylene glycol n-butyl ether caused systemic toxicity in the form of hemoglobinuria and lung, kidney and liver changes. Exposure of rats to a lower concentration (320 ppm) for five weeks caused hemolytic anemia and increased fragility of the red blood cells. However, dogs exposed to a higher concentration (400 ppm) for a longer period (12 weeks) showed only slight injury. Humans appear to be less susceptible, and toxicity may be more likely to occur as a result of skin absorption than from inhalation.

IV. FIRST AID

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration. Get medical attention immediately. If symptoms are experienced, remove source of contamination or move victim to fresh air and obtain medical attention if symptoms develope or persist.

Eyes: Immediately flush eyes with plenty of luke warm 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 and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation develops or persists.

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: Combustible

Flash Point: 66 °C; 151 °F

Autoignition Temperature: 244 °C; 471 °F

Lower Flammable/Explosive Limit, % in air: 1.1 **Upper Flammable/Explosive Limit, % in air:** 13.8

Fire Hazards: Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or crush used containers. Do not expose containers or product to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. During a fire irritating or toxic gases may be generated by thermal decomposition or combustion. Material may be ignited if preheated to temperatures above the flash point in the presence of a source of ignition. 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, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire Fighting Instructions: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases, Nitrogen containing gases.

VI. ACCIDENTAL RELEASE MEASURES

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. Isolate area. Keep unnecessary personnel away.

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.

Air Release: Ventilate the area by opening door and/or turning on fans and blowers.

Water Release: Retain all contaminated water for treatment.

Land Spills: Avoid runoff into storm sewers and ditches that lead to waterways.

VII. HANDLING AND STORAGE

Handling: Harmful or irritating; avoid overexposure to the material. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Do not get in eyes, on skin and clothing. Do not enter storage area unless adequately ventilated. Use spark-proof tools and explosion-proof equipment. Do not use pressure to empty container. Ground and bond containers when transferring material.

Storage: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed when not in use. Store in a tightly closed container. Keep away from heat, sparks, and flame. Do not store near combustible materials. Limit quantity of material stored. Do not store in direct sunlight

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

Engineering Controls: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. See table at the end of this Section VIII below for exposure limits. Engineering controls must be designed to meet any relevant OSHA chemical specific standards in 29 CFR 1910. Explosion proof exhaust ventilation should be used. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Protective Equipment:

Respiratory Tract: If general or local exhaust ventilation is not available or sufficient to reduce exposure to below acceptable levels, then respiratory protection is required to avoid overexposure when handling this product.

Eyes: Wear safety glasses with side shields when handling this product. 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 . Do not wear contact lenses. Have an eye wash station available.

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
Water - for information only	7732-18-5	No TLV	No PEL established	Not determined.
Ethylene glycol mono-n-butyl ether	111-76-2	20 ppm TWA	50 ppm TWA; 240 mg/m3 TWA	700 ppm IDLH
1-Methoxy-2-hydroxypropane	107-98-2	100 ppm TWA 150 ppm STEL	No PEL established	Not determined.
Dibutyl phthalate	84-74-2	5 mg/m3 TWA	5 mg/m3 TWA	4000 mg/m3 IDLH
Cyclic Amine	872-50-4	No TLV	No PEL established	Not determined.
Fumed silica	112945-52-5	No TLV	Respirable Dust: 20 mppcf	Not determined.

IX. PHYSICAL DATA

Appearance: Clear Liquid.
Color: Clear
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: 1.032 / 8.61 Lbs./Gl.
V.O.C. 2.25 Lbs/Gl less water & exempt solvent; 270 g/l less water & exempt solvent; 1.0 Lbs/Gl as packed

The VOC content is determined by using a percent solids basis, less water and exempt solvents, for adhesives, contings 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.Contamination.Do not freeze.
Chemical Incompatibility: Strong alkalies, Strong oxidizing agents, Acids, Chlorinated compounds.
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases, Nitrogen containing gases.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Ethanol, 2-butoxy-	Inhalation LC50 Rat: 450 ppm/4H; Inhalation LC50 Mouse: 700 ppm/7H; Oral LD50 Rat: 470 mg/kg; Oral LD50 Mouse: 1230 mg/kg; Dermal LD50 Rabbit: 220 mg/kg
2-Propanol, 1-methoxy-	Inhalation LC50 Rat: 10000 ppm/5H; Oral LD50 Mouse: 11700 mg/kg; Dermal LD50 Rabbit: 13 gm/kg
Phthalic acid, dibutyl ester	Inhalation LC50 Rat: 4250 mg/m3; Inhalation LC50 Mouse: 25 gm/m3/2H; Oral LD50 Rat: 8 gm/kg; Oral LD50 Mouse: 5289 mg/kg; Dermal LD50 Rabbit: >20 mL/kg
2-Pyrrolidinone, 1-methyl-	Oral LD50 Rat: 3914 mg/kg; Oral LD50 Mouse: 5130 mg/kg; Dermal LD50 Rabbit: 8 gm/kg
Silica, amorphous fumed	Oral LD50 Rat: 3160 mg/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.
Di-n-butyl phthalate 84-74-2

XIV. TRANSPORTATION INFORMATION

Agency	Basic Description and Label
DOT	Not regulated per DOT.

Hazardous Substance
Di-n-butyl phthalate RQ = 10 pounds (4.54 kg); also listed as Dibutyl phthalate; also listed as 1,2-Benzenedicarboxylic acid, dibutyl ester

XV. REGULATORY INFORMATION

Regulation

SARA 313 Reportable : Ethanol, 2-butoxy-, Dibutyl phthalate, N-Methyl-2-pyrrolidinone

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) : This product contains no HAP chemicals at or above de minimis values..

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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