



## MATERIAL SAFETY DATA SHEET

*For 1 Shot/Chromatic Liquid Coatings and Associated Liquid Materials*

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### I. CHEMICAL PRODUCT IDENTIFICATION

Product Name : **BACKING MEDIUM GRAY (GD30F632)**

Date Printed :	10/13/07	Revision Number :	2
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### II. COMPOSITION/INFORMATION ON INGREDIENTS - (EXPOSURE LIMITS - SEE SECTION VIII)

INGREDIENT NAME	CAS #	%
Water - for information only	7732-18-5	30.01 - 40.00
Titanium dioxide	13463-67-7	10.01 - 15.00
Kaolin	1332-58-7	5.01 - 10.00
Barium Metaborate Monohydrate	13701-59-2	1.01 - 5.00
Crystalline Silica	14808-60-7	1.01 - 5.00
2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	25265-77-4	1.01 - 5.00
Carbon black	1333-86-4	0.10 - 1.00

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
<b>HEALTH</b>	1 *
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	0

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

**Routes of Entry:** Inhalation, Ingestion, Skin contact, Eye contact, Absorption.

**Medical Conditions Aggravated:** Lung disease, Digestive tract disease, Eye disease, Skin disease including eczema and sensitization.

#### Immediate (Acute) Health Effects:

**Inhalation:** Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Dust irritating to respiratory tract

**Skin Contact:** May cause skin irritation. Allergic reactions are possible. 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.

<b>Skin Absorption:</b>	Minimal hazard in normal industrial use. May cause gastrointestinal discomfort. A single exposure is not likely to result in the product being absorbed through the skin in harmful amounts.
<b>Ingestion:</b>	Toxic if swallowed. May cause target organ failure and/or death. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
<b>Target Organ Acute Toxicity:</b>	Respiratory System, Digestive Tract, Stomach, Eyes, Skin, Bone Marrow, Cardiovascular System, Lymphatic System.
<b><u>Long-Term (Chronic) Health Effects:</u></b>	
<b>Inhalation:</b>	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Continuous use may result in respiratory problems. Continuous use may result in respiratory problems.
<b>Skin Contact:</b>	Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis. Prolonged or repeated contact may cause irritation and burns, and may result in irritant or allergic dermatitis.
<b>Eye Contact:</b>	Upon prolonged or repeated contact, can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue. Upon prolonged or repeated contact, dust contact can cause mechanical irritation.
<b>Skin Absorption</b>	Upon prolonged or repeated exposure, minimal hazard in normal industrial use. May cause gastrointestinal discomfort.
<b>Carcinogenicity:</b>	IARC: Yes                      NTP: Yes                      OSHA: No
<b>Target Organ Chronic Toxicity:</b>	Respiratory System, Digestive Tract, Stomach, Eyes, Skin, Lymphatic 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.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding or grinding.

IARC has recently re-evaluated titanium dioxide as possibly carcinogenic to humans (Group 2B) based on animal studies. However, human studies available to date do not suggest that occupational exposure to titanium dioxide increases cancer risk. The ACGIH classifies titanium dioxide as A4 (not classifiable as a human carcinogen). NTP does not classify it as carcinogenic. IARC's evaluation shows inadequate evidence of carcinogenicity in humans, but sufficient evidence of carcinogenicity in experimental animals. The evidence shows that high concentrations of powdered and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by either natural inhalation or direct introduction into the lungs. However, the same results are observed in people working in dusty environments. Therefore, IARC extended this idea to workers with exposures to titanium dioxide dust, if there are insufficient dust control measures in place. Based on the IARC decision, Canadian officials have agreed that titanium dioxide is classifiable as WHMIS D2A (carcinogen), and that it is not necessary to wait for release of the full monograph. OSHA requires the status on US MSDSs to change within 90 days of publication in the IARC monograph volume 93.

**IV. FIRST AID**

<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately. If symptoms are experienced, remove source of contamination or move victim to fresh air and obtain medical attention if symptoms develop or persist.
<b>Eyes:</b>	Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.
<b>Skin Contact:</b>	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

**Fire Hazards:** Liquid material will not ignite or burn. Dried overspray and dried films from paints and organic coatings can burn. 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 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 surface of the fire. Do Not direct a stream of water 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.

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases, Metal oxides.

## 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. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

### 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:** Mildly irritating material. Avoid unnecessary exposure. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid breathing material. Guard against dust accumulation of this material. Follow all protective equipment recommendations provided in Section VIII. Minimize dust generation and accumulation.

**Storage:** Store in a cool dry place. Isolate from incompatible materials. Keep container closed when not in use. Limit quantity of material stored. Keep away from heat, sparks, and flame.

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

**Engineering Controls:** Local exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Vapor concentrations should be monitored and controlled in accordance with 29 CFR 1910.1000.

### 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. Do not wear contact lenses.

**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.
Titanium dioxide	13463-67-7	10 mg/m3 TWA	15 mg/m3 TWA (total dust)	5000 mg/m3 IDLH
Kaolin	1332-58-7	2 mg/m3 TWA (respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not determined.
Barium Metaborate Monohydrate	13701-59-2	0.5 mg/m3 TWA (as Ba)	0.5 mg/m3 TWA (as Ba)	Not determined.
Crystalline Silica	14808-60-7	0.05 mg/m3 TWA (respirable fraction)	(250)/(%SiO <sub>2</sub> + 5) mppcf (respirable); (10 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> + 2) (respirable); (30 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> + 2) (Total Dust)	50 mg/m3 IDLH (respirable dust)
2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	25265-77-4	No TLV	No PEL established	Not determined.
Carbon black	1333-86-4	3.5 mg/m3 TWA	3.5 mg/m3 TWA	1750 mg/m3 IDLH

**IX. PHYSICAL DATA**

<b>Appearance:</b>	Grey Liquid.		
<b>Color:</b>	Grey		
<b>pH:</b>	N/A		
<b>Octanol/Water Coeff:</b>	Not Determined.		
<b>Solubility in Water:</b>	Partial.		
<b>Vapor Density:</b>	N/A		
<b>Evaporation Rate:</b>	Not determined		
<b>Specific Gravity/Density:</b>	1.297 / 10.82 Lbs./G1.		
<b>V.O.C.</b>	0.45 Lbs/G1 less water & exempt solvent;	54 g/l less water & exempt solvent;	0.2 Lbs/G1 as packed

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.

<b>Initial Boiling Point:</b>	100 °C;	212 °F
<b>Initial Freezing Point:</b>	0 °C;	32 °F

**X. STABILITY AND REACTIVITY**

<b>Stability Information:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	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.
<b>Chemical Incompatibility:</b>	Strong acids, Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Metal oxides.

**XI. TOXICOLOGICAL INFORMATION**

Chemical Name	LD50/LC50
Propionic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol	Oral LD50 Rat: 3200 mg/kg; Oral LD50 Mouse: 3200 mg/kg
Carbon black	Oral LD50 Rat: >15400 mg/kg; Dermal LD50 Rabbit: >3 gm/kg

**XII. ECOLOGICAL INFORMATION**

<b>Overview:</b>	Care should be taken to minimize releases of any industrial chemicals to the environment.
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**XIII. DISPOSAL CONSIDERATIONS**

<b>Waste Description for Unused Product:</b>	Waste description not determined.
<b>Disposal Methods:</b>	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.
<b>Potential EPA Waste Codes:</b>	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**

None expected.

**XV. REGULATORY INFORMATION****Regulation**

SARA 313 Reportable : Barium Compounds

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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