



MATERIAL SAFETY DATA SHEET

For 1 Shot/Chromatic Liquid Coatings and Associated Liquid Materials

One Shot, LLC

A Spraylat Company
5300 W. 5th Avenue
Gary, IN 46406
(219) 949-1684
Fax: (219) 949-1612

e-mail HSEcoordinator@Spraylat.com

PREPARED BY : Health, Safety and Environmental Coordinator

EMERGENCY PHONE:	1-800-424-9300	Chemtrec
INTERNATIONAL TRANSPORTATION ACCIDENTS:	1-703-527-3887	Chemtrec

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name : **MULTIBLOCK VINYL PRIMER & BLOCKOUT (GD303)**

Date Printed :	10/13/07	Revision Number :	3
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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	20.01 - 25.00
Kaolin	1332-58-7	5.01 - 10.00
Propylene Glycol	57-55-6	1.01 - 5.00
Silicon Dioxide (amorphous)	7631-86-9	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	1
FLAMMABILITY	1
REACTIVITY	0

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

Routes of Entry:

Inhalation, Ingestion, Skin contact, Eye contact.

Medical Conditions Aggravated:

Lung disease, Digestive tract disease, Eye disease, Skin disease including eczema and sensitization.

Immediate (Acute) Health Effects:

Inhalation:

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

Skin Contact:

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.

Skin Absorption:

Harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Ingestion:	May be slightly toxic by ingestion. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
Target Organ Acute Toxicity:	Respiratory System, Digestive Tract, Stomach, Eyes, Skin.
<u>Long-Term (Chronic) Health Effects:</u>	
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.
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, Digestive Tract, Stomach, Eyes, Skin.

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

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. Seek medical attention if symptoms 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. 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: Toxic fumes, Toxic 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. 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: Harmful or irritating; avoid overexposure to the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage: Store in a cool dry place. Isolate from incompatible materials. Keep container closed when not in use.

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. 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. 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.
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.
Propylene Glycol	57-55-6	No TLV	No PEL established	Not determined.
Silicon Dioxide (amorphous)	7631-86-9	10 mg/m3 TWA	Respirable Dust: 20 mppcf	3000 mg/m3 IDLH

IX. PHYSICAL DATA

Appearance: Grey Liquid.
Color: Grey
pH: N/A
Octanol/Water Coeff: Not Determined.
Solubility in Water: Partial.
Vapor Density: N/A
Evaporation Rate: Not determined
Specific Gravity/Density: 1.367 / 11.41 Lbs./Gl.
V.O.C. 0.85 Lbs/Gl less water & exempt solvent; 102 g/l less water & exempt solvent; 0.4 Lbs/Gl 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.

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 oxidizing agents.
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
1,2-Propanediol	Oral LD50 Rat: 20 gm/kg; Oral LD50 Mouse: 22 gm/kg; Dermal LD50 Rabbit: 20800 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. None expected.

XIV. TRANSPORTATION INFORMATION

Agency Basic Description and Label
DOT Not regulated per DOT. DOT by Land Transport: Not Regulated; DOT by Air and IATA (all modes): Paint, 3, UN1263, PG III, Label Required: Flammable Liquid

Hazardous Substance

None expected.

XV. REGULATORY INFORMATION

Regulation

SARA 313 Reportable : This product contains no Section 313 chemicals at or above de minimis values.
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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