



CHROMATIC

# MATERIAL SAFETY DATA SHEET

For 1 Shot/Chromatic Liquid Coatings and Associated Liquid Materials

## One Shot, LLC

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### I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: **Chromatic® Primers and Blockouts - Solvent Based**  
(4420101, 4420602, 4403101, 4401080, 4401081, 4401101, 4401082)

Date Printed : 08/21/01 Supercedes : All Previous  
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### II. COMPOSITION/INFORMATION ON INGREDIENTS - (EXPOSURE LIMITS - SEE SECTION VIII)

| INGREDIENT NAME  | CAS #      | %   |
|--|------------|-----|
| Stoddard solvent   | 8052-41-3  | <40 |
| <i>THE ITEMS LISTED BELOW ARE NOT CONTAINED IN ALL COLORS. SEE THE TABLE ON PAGE 2 TO DETERMINE WHICH COLORS CONTAIN THESE INGREDIENTS AND % WT.</i> |            |     |
| 1,2,4-Trimethylbenzene   | 95-63-6    | -   |
| Calcium carbonate  | 471-34-1   | -   |
| Carbon black   | 1333-86-4  | -   |
| Crystalline Silica   | 14808-60-7 | -   |
| Ethylbenzene   | 100-41-4   | -   |
| Kaolin   | 1332-58-7  | -   |
| Light aliphatic solvent naphtha  | 64742-89-8 | -   |
| Light Aromatic Solvent Naphtha   | 64742-95-6 | -   |
| Solvent Naphtha (petroleum), medium  | 64742-88-7 | -   |
| Talc   | 14807-96-6 | -   |
| Titanium dioxide   | 13463-67-7 | -   |
| Xylene   | 1330-20-7  | -   |

### III. HAZARDS IDENTIFICATION

|              | HMIS |
|--------------|------|
| HEALTH       | 2 *  |
| FLAMMABILITY | 3    |
| REACTIVITY   | 0    |

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

| <u>PRODUCT#</u> | <u>DENSITY<br/>LBS/GL</u> | <u>V.O.C. ‡<br/>LBS/GL</u> | <u>1,2,4-TRIMETHYL<br/>BENZENE</u> | <u>CALCIUM<br/>CARBONATE</u> | <u>CARBON<br/>BLACK</u> | <u>CRYSTALLINE<br/>SILICA</u> | <u>ETHYL-<br/>BENZENE</u> | <u>KAOLIN</u> | <u>LIGHT<br/>ALIPHATIC<br/>SOLVENT<br/>NAPHTHA</u> | <u>LIGHT<br/>AROMATIC<br/>SOLVENT<br/>NAPHTHA</u> |
|-----------------|---------------------------|----------------------------|------------------------------------|------------------------------|-------------------------|-------------------------------|---------------------------|---------------|--|---|
| 4420101         | 12.6                      | 2.9                        |                                    | <35                          |                         | < 1                           | < 1                       | <10           | <15  |   |
| 4420602         | 13.0                      | 2.7                        |                                    | <35                          |                         |                               |                           | <10           | <15  |   |
| 4401101         | 10.2                      | 4.0                        |                                    | <25                          |                         |                               |                           | <10           |  |   |
| 4403101         | 9.6                       | 3.1                        |                                    |                              |                         | < 1                           | < 1                       |               | <15  |   |
| 4401080         | 10.4                      | 3.4                        | < 5                                |                              |                         | < 1                           | < 1                       |               | <10  | <10   |
| 4401081         | 10.3                      | 3.5                        | < 5                                |                              |                         | < 1                           | < 1                       |               | <15  | <10   |
| 4401082         | 9.8                       | 3.4                        | < 5                                |                              | < 1                     | < 1                           | < 1                       |               | < 5  | < 5   |

| <u>Carcinogenicity:</u> | <u>IARC</u> | <u>No</u> | <u>No</u> | <u>Yes</u> | <u>Yes</u> | <u>Yes</u> | <u>No</u> | <u>No</u> | <u>No</u> |
|-------------------------|-------------|-----------|-----------|------------|------------|------------|-----------|-----------|-----------|
|                         | <u>NTP</u>  | <u>No</u> | <u>No</u> | <u>No</u>  | <u>Yes</u> | <u>No</u>  | <u>No</u> | <u>No</u> | <u>No</u> |
|                         | <u>OSHA</u> | <u>No</u> | <u>No</u> | <u>No</u>  | <u>No</u>  | <u>No</u>  | <u>No</u> | <u>No</u> | <u>No</u> |

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

| <u>PRODUCTS</u>                             | <u>FLASH POINT (°C/°F)</u> | <u>Paint,3,UN126</u> |
|---|----------------------------|----------------------|
| 4420101, 4420602, 4403101, 4401080, 4401081 | 10/50                      | .... II              |
| 4401101, 4401082                            | 41/106                     | .... III             |

**Routes of Entry:** Inhalation, Ingestion, Skin contact, Eye contact, Absorption  
**Medical Conditions Aggravated:** Eye disease, Skin disease including eczema and sensitization, Kidney disease, Lung disease, Digestive tract disease, Liver disease

**Immediate (Acute) Health Effects:**

**Inhalation:** Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Can cause severe central nervous system depression (including unconsciousness).

**Skin Contact:** Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

**Eye Contact:** Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

**Skin Absorption:** May cause irritation and minor systemic damage.

**Ingestion:** Harmful if swallowed. May cause systemic poisoning. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis.

**Target Organ Acute Toxicity:** Respiratory System, Eyes, Skin, Kidneys, Nervous System, Cardiovascular System, Digestive Tract, Stomach, Blood, Liver, Bone Marrow, Lymphatic System, Thyroid, Pituitary, Testes

**Long-Term (Chronic) Health Effects:**

**Inhalation:** Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

**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 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.

**Carcinogenicity:** See Table on page 2.

**Target Organ Chronic Toxicity:** Respiratory System, Nervous System, Kidneys, Eyes, Skin, Cardiovascular System, Blood, Liver, Digestive Tract, Lymphatic System, Pituitary, Testes

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.

Lifetime inhalation exposure of rats and mice to high concentrations of ethylbenzene (750 ppm) resulted in increases in certain types of cancer, including kidney, lung and liver tumors. Testicular adenomas were increased as were thyroid effects in rats at 750 ppm. Pituitary effects were observed in female mice at 250 ppm. These effects were absent when exposure was below 75 ppm ethylbenzene. The study does not address the relevance of these results to humans.

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

**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 lukewarm 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. Remove contaminated clothing and launder. 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:

All are **Highly Flammable**, except 4401101 and 4401082 are **Combustible**.

### Flash Point:

See Table at bottom of page 2.

### Autoignition Temperature:

226 °C; 439 °F

### Lower Flammable/Explosive Limit, % in air:

1.0

Upper Flammable/Explosive Limit, % in air: 7.0

### Fire Hazards:

Can release vapors that form explosive mixtures at temperatures at or above the flash point. 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 container product to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions potentially cause an explosion that may lead to injury or death. Vapors may be ignited by heat, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. 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 protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling. Use methods for the surrounding fire.

### Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide, 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. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

### Spill Mitigation Procedures:

#### General Methods:

Prevent the spread of any spill to minimize harm to health and the environment if safe to do so. Use proper personal protective equipment following the recommendations of Section VIII. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Ensure clean-up measures are in compliance with OSHA (29 CFR 1910.120).

#### 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. Use spark-proof tools and explosion-proof equipment.

### Storage:

Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed when not in use. Keep away from sources of ignition. Limit quantity of material stored.

## 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. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Engineering controls must be designed to meet any relevant OSHA chemical specific standards in 29CFR 1910. Explosion proof exhaust ventilation should be used. Can form explosive mixtures at temperatures at or above the flash point.

**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:**

Wear protective gloves. Inspect gloves for chemicabreak-through and replace at regular intervals. Clean protective equipment regularly. 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  |
|---|------------|---|--|---|
| 1,2,4-Trimethylbenzene                        | 95-63-6    | No TLV  | No PEL established   | Not determined.   |
| Calcium carbonate                             | 471-34-1   | No TLV  | No PEL established   | Not determined.   |
| Carbon black                                  | 1333-86-4  | 3.5 mg/m <sup>3</sup> TWA   | 3.5 mg/m <sup>3</sup> TWA  | 1750 mg/m <sup>3</sup> IDLH   |
| Crystalline Silica                            | 14808-60-7 | (0.1 mg/m <sup>3</sup> ) TWA (this TLV is for the respirable fraction of dust)  | Respirable Dust: (10 mg/m <sup>3</sup> )/(2 + %SiO <sub>2</sub> )                    | Potential NIOSH carcinogen.[25 mg/m <sup>3</sup> (cristobalite, tridymite); 50 mg/m <sup>3</sup> (quartz, tripoli)] |
| Ethylbenzene                                  | 100-41-4   | 100 ppm TWA<br>125 ppm STEL   | 100 ppm TWA; 435 mg/m <sup>3</sup> TWA   | 800 ppm IDLH (10 percent lower explosive limit)   |
| Kaolin  | 1332-58-7  | respirable fraction: 2 mg/m <sup>3</sup> TWA (The value is for particulate matter containing no asbestos and < 1% crystalline silica)<br>No TLV | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) | Not determined.   |
| Light aliphatic solvent naphtha               | 64742-89-8 | No TLV  | No PEL established   | Not determined.   |
| Light Aromatic Solvent Naphtha                | 64742-95-6 | No TLV  | No PEL established   | Not determined.   |
| Solvent Naphtha (petroleum), medium aliphatic | 64742-88-7 | No TLV  | No PEL established   | Not determined.   |
| Stoddard solvent                              | 8052-41-3  | 100 ppm TWA   | 500 ppm TWA; 2900 mg/m <sup>3</sup> TWA  | 20,000 mg/m <sup>3</sup> IDLH   |
| Talc  | 14807-96-6 | 2 mg/m <sup>3</sup> TWA (this TLV is for the respirable fraction of dust for Talc containing no asbestos and <1% crystalline silica)            | Not containing asbestos; containing less than 1% quartz: 20 mppcf                    | 1000 mg/m <sup>3</sup> IDLH   |
| Titanium dioxide                              | 13463-67-7 | 10 mg/m <sup>3</sup> TWA  | 15 mg/m <sup>3</sup> TWA (total dust)  | Potential NIOSH carcinogen.   |
| Xylene  | 1330-20-7  | 100 ppm TWA<br>150 ppm STEL   | 100 ppm TWA; 435 mg/m <sup>3</sup> TWA   | 900 ppm IDLH  |

**IX. PHYSICAL DATA**

|                               |   |
|-------------------------------|---|
| <b>Appearance:</b>            | Liquid.   |
| <b>pH:</b>                    | N/A   |
| <b>Octanol/Water Coeff:</b>   | Not Determined.   |
| <b>Solubility in Water:</b>   | Minimal.  |
| <b>Vapor Density:</b>         | Heavier than air. Vapors that evolve from this product will tend to settle and accumulate near the floor. |
| <b>Evaporation Rate:</b>      | Slower than n-Butyl Acetate.  |
| <b>Density</b>                | See Table on page 2.  |
| <b>V.O.C.</b>                 | See Table on page 2.  |
| <b>Initial Boiling Point</b>  | 95 ° C; 203 ° F   |
| <b>Initial Freezing Point</b> | N/A   |

**X. STABILITY AND REACTIVITY**

|  |   |
|--|---|
| <b>Stability Information:</b>            | Stable under normal conditions.   |
| <b>Conditions to Avoid:</b>              | Contamination, Sparks, open flame, other ignition sources, and elevated temperatures. |
| <b>Chemical Incompatibility:</b>         | Strong oxidizing agents, Chlorine   |
| <b>Hazardous Decomposition Products:</b> | Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases                             |

**XI. TOXICOLOGICAL INFORMATION**

| Chemical Name                     | LD50/LC50   |
|-----------------------------------|---|
| Benzene, 1,2,4-trimethyl-         | Inhalation LC50 Rat : 18 gm/m <sup>3</sup> /4H; Oral LD50 Rat : 5 gm/kg                         |
| Benzene, ethyl-                   | Oral LD50 Rat : 3500 mg/kg; Dermal LD50 Rabbit : 17800 uL/kg                                    |
| Carbon black                      | Oral LD50 Rat : >15400 mg/kg; Dermal LD50 Rabbit : >3 gm/kg                                     |
| Carbonic acid, calcium salt (1:1) | Oral LD50 Rat : 6450 mg/kg  |
| Xylene                            | Inhalation LC50 Rat : 5000 ppm/4H; Oral LD50 Rat : 4300 mg/kg; Dermal LD50 Rabbit : >1700 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 Spent Product:

Spent or discarded material is a hazardous waste. The waste is ignitable.

### 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.

## XIV. TRANSPORTATION INFORMATION

### Agency Basic Description and Label

DOT See Table at bottom of page 2.

## XV. REGULATORY INFORMATION

### Regulation

SARA 313 Reportable : 1,2,4-Trimethylbenzene, Xylene (mixed isomers), Ethyl benzene

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) : Xylenes (isomers and mixture), Ethyl benzene

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."

## XVI. ADDITIONAL INFORMATION

### Major

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

### References:

**IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, THEY ARE PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HERE ARE GIVEN GRATIS. NO OBLIGATIONS NOR LIABILITIES FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.**