



MATERIAL SAFETY DATA SHEET

For 1Shot/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

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Supersedes: All Previous

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: "1 SHOT®" Pearlescent Enamels (900-P through 964-P)

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

INGREDIENT NAME	CAS #	%
Stoddard solvent	8052-41-3	<35
Mica	12001-26-2	<10
Titanium dioxide	13463-67-7	< 5
1,2,4-Trimethylbenzene	95-63-6	< 5
Light Aromatic Solvent Naphtha	64742-95-6	< 5
Xylene	1330-20-7	< 5
1,3,5-Trimethylbenzene	108-67-8	< 1
Ethylbenzene	100-41-4	< 1
<i>THE FOLLOWING ITEMS ARE CONTAINED ONLY IN THE COLORS SHOWN BELOW.</i>		
Carbon Black	in 948-P 1333-86-4	< 1
Petroleum Spirits	in 950-P 8032-32-4	< 5
Solvent Naphtha (petroleum), medium aliphatic	in 904-P 64742-88-7	< 5

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:

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

V. FIRE FIGHTING MEASURES

Flammability Summary: Combustible

Flash Point: 41 ° C; 106 ° F

Autoignition Temperature: 226 ° C; 439 ° F

Lower Flammable/Explosive Limit, % in air: 0.9 **Upper Flammable/Explosive Limit, % in air:** 7.0

Fire Hazards: Vapors may be ignited by heat, sparks, 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, 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. 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.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Toxic fumes.

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. Wear 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.

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

Water Release: Avoid runoff into storm sewers and ditches that lead to waterways. If runoff occurs, notify proper authorities as required, that a spill has occurred.

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. Do not get in eyes, on skin and clothing. Minimize dust generation and accumulation. Ground and bond containers when transferring material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Use spark-proof tools and explosion-proof equipment. Remove contaminated clothing and wash before reuse.

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

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 29 CFR 1910. Explosion proof exhaust ventilation should be used.

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 chemical break-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.
1,3,5-Trimethylbenzene	108-67-8	No TLV	No PEL established	Not determined.
Carbon black	1333-86-4	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	1750 mg/m ³ IDLH
Ethylbenzene	100-41-4	100 ppm TWA 125 ppm STEL	100 ppm TWA; 435 mg/m ³ TWA	800 ppm IDLH (10 percent lower explosive limit)
Light Aromatic Solvent Naphtha	64742-95-6	No TLV	No PEL established	Not determined.
Mica	12001-26-2	3 mg/m ³ TWA (this TLV is for the respirable fraction of dust for Mica) for particulate matter containing no asbestos and <1% crystalline silica	Respirable Dust: 20 mppcf	1500 mg/m ³ IDLH
Petroleum Spirits	8032-32-4	300 ppm TWA	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 ³ TWA	20,000 mg/m ³ IDLH
Titanium dioxide	13463-67-7	10 mg/m ³ TWA	15 mg/m ³ TWA (total dust)	Potential NIOSH carcinogen.
Xylene	1330-20-7	100 ppm TWA 150 ppm STEL	100 ppm TWA; 435 mg/m ³ TWA	900 ppm IDLH

IX. PHYSICAL DATA

Appearance:	Liquid.
pH:	N/A
Octanol/Water Coeff:	Not Determined.
Solubility in Water:	Minimal.
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.
Density:	8.2 lb/gal
V.O.C.*	3.3 lb/gal

* 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	154 °C; 309 °F
Initial Freezing Point	N/A

X. STABILITY AND REACTIVITY

Stability Information:	Stable under normal conditions.
Conditions to Avoid:	Contamination. Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Chemical Incompatibility:	Strong oxidizing agents, Chlorine.
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide, Toxic fumes.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Ligroine	Inhalation LC50 Rat : 3400 ppm/4H
Benzene, 1,2,4-trimethyl-	Inhalation LC50 Rat : 18 gm/m ³ /4H; Oral LD50 Rat : 5 gm/kg
Carbon black	Oral LD50 Rat : >15400 mg/kg; Dermal LD50 Rabbit : >3 gm/kg
Xylene	Inhalation LC50 Rat : 5000 ppm/4H; Oral LD50 Rat : 4300 mg/kg; Dermal LD50 Rabbit : >1700 mg/kg
Mesitylene	Inhalation LC50 Rat : 24 gm/m ³ /4H
Benzene, ethyl-	Oral LD50 Rat : 3500 mg/kg; Dermal LD50 Rabbit : 17800 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 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.

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.

Xylenes (o-, m-, p- isomers)	1330-20-7
Ethyl benzene	100-41-4

XIV. TRANSPORTATION INFORMATION

Agency Basic Description and Label

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

Xylenes (isomers and mixture)	final RQ = 100 pounds (45.4 kg); also listed as Xylene; also listed as Xylene (mixed); also listed as Benzene, dimethyl-
Ethyl benzene	final RQ = 1000 pounds (454 kg)

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 and birth defects or other reproductive harm."

XVI. ADDITIONAL INFORMATION

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

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. MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION OR USE, INCLUDING USE OF THIS MATERIAL IN COMBINATION WITH OTHER MATERIALS OR PROCESSES. YOU THEREFORE SHOULD, AND THIS MATERIAL IS SUPPLIED ON THE CONDITION THAT YOU, PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF THE MATERIAL PRIOR TO USE, AND YOU ACCEPT RESPONSIBILITY FOR SATISFYING YOURSELF THAT THE MATERIAL IS SUITABLE AND THE COMPLETENESS OF THIS INFORMATION IS SUFFICIENT FOR YOUR 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, AND WE DISCLAIM LIABILITY FOR LOSS OR INJURY ARISING FROM YOUR USE OF THIS MATERIAL, DATA OR INFORMATION. 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.