



MATERIAL SAFETY DATA SHEET

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

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I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: **Chromatic® Additives & Reducers** (4303300, 4303301, 4303302, 4329500, 4311001)

Date Printed : 03/18/03 **Supercedes :** All Previous
Revision Date : 03/18/03

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

INGREDIENT NAME	CAS #	%		INGREDIENT NAME	CAS #	%
1,2,4-Trimethylbenzene	95-63-6	See Table on page 2.				
<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>						
1,3,5-Trimethylbenzene	108-67-8	-		Naphtha (petroleum), heavy aromatic	64742-94-5	-
Diethylbenzene	25340-17-4	-		Naphthalene	91-20-3	-
Ethylbenzene	100-41-4	-		Naphtha, hydrodesulfurized heavy	64742-82-1	-
Fumed silica	112945-52-5	-		Polymerized Linseed Oil	67746-08-1	-
Isopropylbenzene	98-82-8	-		Stoddard solvent	8052-41-3	-
Light Aromatic Solvent Naphtha	64742-95-6	-		Xylene	1330-20-7	-
Linseed oil	8001-26-1	-				

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, Eye contact, Skin contact, Ingestion.

Medical Conditions Aggravated:

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

ADDITIONAL INGREDIENTS OF ADDITIVES & REDUCERS -- Weight %

PRODUCT#:	4303300	4303301	4303302	4329500	4311001	CARCINOGENICITY		
DENSITY (LB/GAL):	7.6	7.4	6.9	7.8	6.8			
V.O.C. (LB/GAL)‡:	5.6	7.4	6.9	4.4	5.2			
FLASH POINT (C/F)	55/131	38/100	31.7/89	40.5/106	40.5/106			
Ingredients:						IARC	NTP	OSHA
1,2,4-Trimethylbenzene	< 5	<20	< 5	< 1	< 5	No	No	No
1,3,5-Trimethylbenzene	.....	< 5	.....	.....	.....	No	No	No
Diethylbenzene	.....	< 5	.....	.....	.....	No	No	No
Ethylbenzene	.....	< 1	<10	< 1	.....	Yes	No	No
Fumed Silica	.....	.....	.....	< 5	.....	No	No	No
Isopropylbenzene	.....	< 5	.....	.....	.....	No	No	No
Light Aromatic Solvent Naphtha	.....	<30	.....	.....	.....	No	No	No
Linseed Oil	<30	.....	.....	.....	.....	No	No	No
Naphtha (petroleum), heavy aromatic	<75	<50	.....	.....	.....	No	No	No
Naphthalene	<10	<10	.....	.....	.....	Yes	No	No
Naphtha, hydrodesulfurized heavy	.....	.....	.....	< 5	.....	No	No	No
Polymerized Linseed Oil	.....	.....	.....	.....	<25	No	No	No
Stoddard solvent	.....	.....	<50	<60	<85	No	No	No
Xylene	.....	.....	<50	< 5	.....	No	No	No

‡ 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.

Immediate (Acute) Health Effects:

Inhalation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Toxic. Can cause systemic damage, see target organs below. Respiratory failure is possible at high doses.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
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:	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:	Eyes, Skin, Respiratory System, Kidneys, Nervous System, Blood, Liver, Digestive Tract, 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 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:	See Table on page 2.
Target Organ Chronic Toxicity:	Respiratory System, Nervous System, Eyes, Skin, Kidneys, Blood, Liver, Digestive Tract, 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. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
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. Remove contaminated clothing and laundry. 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:	See Table on 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:	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. Avoid spontaneous combustion of contaminated rags and other easily ignitable accumulations (example: spray booth residue) by immediate immersion in water. Vapors may be ignited by sparks, flames or other sources of ignition if material is above the 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.
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. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide. Product #45010 only: Nitrogen containing gases, Hydrogen cyanide, Isocyanates.

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.
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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:	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 place. Isolate from incompatible materials. Keep away from sources of ignition.

Keep container closed when not in use.

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. Vapor concentrations should be monitored and controlled in accordance with 29 CFR 1910.1000. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or using this material should be equipped with an eyewash and safety shower.

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. Wear a NIOSH approved respirator if any exposure is possible.

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.
Diethylbenzene	25340-17-4	No TLV	No PEL established	Not determined.
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)
Fumed silica	112945-41-7	No TLV	No PEL established	Not determined.
Isopropylbenzene	98-82-8	50 ppm TWA	50 ppm TWA; 245 mg/m ³ TWA	900 ppm IDLH (10 percent lower explosive limit)
Light Aromatic Solvent Naphtha	64742-95-6	No TLV	No PEL established	Not determined.
Linseed oil	8001-26-1	No TLV	No PEL established	Not determined.
Naphtha (petroleum), heavy aromatic	64742-94-5	No TLV	No PEL established	Not determined.
Naphtha, hydrodesulfurized heavy	64742-82-1	No TLV	No PEL established	Not determined.
Naphthalene	91-20-3	10 ppm TWA 15 ppm STEL	10 ppm TWA; 50 mg/m ³ TWA	250 ppm IDLH
Polymerized Linseed Oil	67746-08-1	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
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

See Table on page 2.

V.O.C.

See Table on page 2.

Initial Boiling Point

95 °C; 203 °F

Initial Freezing Point

N/A

X. STABILITY AND REACTIVITY

Stability Information:	Stable under normal conditions. Spontaneous combustion can occur under certain conditions when linseed oil is present; see "Conditions to Avoid".
Conditions to Avoid:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Contamination. For product #4303300, containing linseed oil: Avoid spontaneous combustion of contaminated rags and other easily ignitable accumulations (example: spray booth residue) by immediate immersion in water.
Chemical Incompatibility:	Strong oxidizing agents, Chlorine, Strong alkalis, Mineral acids.
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Benzene, 1,2,4-trimethyl-	Inhalation LC50 Rat : 18 gm/m ³ /4H; Oral LD50 Rat : 5 gm/kg
Benzene, ethyl-	Oral LD50 Rat : 3500 mg/kg; Dermal LD50 Rabbit : 17800 uL/kg
Cumene	Inhalation LC50 Mouse : 10 gm/m ³ /7H; Oral LD50 Rat : 1400 mg/kg; Oral LD50 Mouse : 12750 mg/kg; Dermal LD50 Rabbit : 12300 uL/kg
Mesitylene	Inhalation LC50 Rat : 24 gm/m ³ /4H
Naphthalene	Inhalation LC50 Rat : >340 mg/m ³ /1H; Oral LD50 Rat : 490 mg/kg; Oral LD50 Mouse : 533 mg/kg; Dermal LD50 Rabbit : >20 gm/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.

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
Naphthalene	91-20-3
Ethyl benzene	100-41-4

XIV. TRANSPORTATION INFORMATION

Agency Basic Description and Label

DOT Product 4303302: Paint,3,UN1263,PG III
Products 4303300, 4303301, 4329500, 4311001: 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-
Naphthalene	final RQ = 100 pounds (45.4 kg)
Cumene	final RQ = 5000 pounds (2270 kg)
Ethyl benzene	final RQ = 1000 pounds (454 kg)

XV. REGULATORY INFORMATION

Regulation

SARA 313 Reportable :	Xylene (mixed isomers), 1,2,4-Trimethylbenzene, Naphthalene, Cumene, 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), Naphthalene, Cumene, 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.