MATERIAL SAFETY DATA SHEET

For Spraylat Liquid Coatings and Associated Liquid Materials

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Revision Date : 10/08/2007 **Version:** 1.2 **Supersedes:** All Previous

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: **Mark 1 Universal Colorant A (Satin & Gloss)**

SATIN:	SM102S	SM111S	SM112S	SM113S	SM114S	SM115S	SM117S
	SM120S	SM121S	SM122S	SM123S	SM125S	SM130S	SM131S
	SM132S	SM140S	SM142S	SM143S	SM146S	SM147S	SM151S
	SM152S	SM153S	SM154S	SM171S	SM172S	SM177S	
GLOSS:	SM302G	SM311G	SM312G	SM313G	SM314G	SM315G	SM317G
	SM320G	SM321G	SM322G	SM323G	SM325G	SM330G	SM331G
	SM332G	SM340G	SM342G	SM343G	SM346G	SM347G	SM377G

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

INGREDIENT NAME	CAS #	%	
p-Chlorobenzotrifluoride	98-56-6	4 - 50	
Other hazardous ingredients	---	---	See Tables 1 and 2 on pages 2 and 3.

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 Codes are shown in Table 1 on page 2.

HMIS Codes Key: 0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme * = Chronic Health Effects

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

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

Table 1
INGREDIENTS

Product Code	Additional Ingredients in Table 2?	Specific Gravity	Density (lb/gal)	VOC (Lb/gal less water & exempt)**	Flash Point (C/F)	HMIS CODES§				1,2,4-Trimethylbenzene	Amorphous silica, silicon dioxide	Ethyl-3-Ethoxypropionate	Ethylbenzene	Isobutyl Acetate	Methoxypropanol acetate	Methyl n-amyl ketone	n-Butyl acetate	Toluene
						H	*	F	R									
SM102S	YES	1.60	13.37	3.7	42/108	2		2	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	< 5
SM111S		1.13	9.39	2.8	27/81	2		3	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	< 5
SM112S		1.06	8.86	2.7	27/81	2		3	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	< 5
SM113S		1.01	8.45	2.5	27/81	2		3	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	< 5
SM114S		1.06	8.86	2.8	27/81	2	*	3	0	<0.5	< 5	< 5	< 5		1.0 - 15		1.0 - 10	< 5
SM115S	YES	1.22	10.16	2.7	42/108	2	*	2	0	<0.5	< 5	< 5	< 5		1.0 - 15	< 5	1.0 - 10	< 5
SM117S		1.14	9.52	2.7	27/81	2		3	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	< 5
SM120S		1.31	10.97	4.7	27/81	2	*	3	0		< 5		< 5	<15	1.0 - 15			
SM121S		1.07	8.90	2.7	42/108	2		2	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	< 5
SM122S	YES	1.12	9.36	2.7	27/81	2	*	3	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	< 5
SM123S	YES	1.06	8.85	2.7	27/81	2	*	3	0	<0.5			< 5		1.0 - 15		1.0 - 10	< 5
SM125S		1.31	10.97	3.7	27/81	2		3	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	< 5
SM130S		1.06	8.84	2.7	4/39	2		3	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	<10
SM131S		1.14	9.54	2.6	4/39	2		3	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	<10
SM132S		1.13	9.46	2.7	4/39	2		3	0	<0.5	< 5	< 5			1.0 - 15		1.0 - 10	<10
SM140S	YES	1.04	8.64	2.6	4/39	2	*	3	0			< 5	< 5		1.0 - 15		1.0 - 10	<10
SM142S		1.07	8.90	2.7	27/81	2	*	3	0	<0.5	< 5		< 5		1.0 - 15		1.0 - 10	< 5
SM143S		1.31	10.96	3.1	4/39	2		3	0	<0.5	< 5	< 5		< 5	1.0 - 15		1.0 - 10	<10
SM146S		1.17	9.76	3.2	4/39	2		3	0	<0.5	< 5	< 5		< 5	1.0 - 15		1.0 - 10	<10
SM147S		1.05	8.75	2.6	42/108	2	*	2	0	<0.5	< 5	< 5	< 5		1.0 - 15		1.0 - 10	<10
SM151S	YES	1.08	9.02	2.7	27/81	2	*	3	0	<0.5		< 5	< 5		1.0 - 15	< 5	1.0 - 10	< 5
SM152S	YES	1.06	8.85	2.6	27/81	2	*	3	0	<0.5	< 5	< 5	< 5		1.0 - 15	< 5	1.0 - 10	< 5
SM153S	YES	1.06	8.86	2.7	27/81	2	*	3	0	<0.5		< 5	< 5		1.0 - 15	< 5	1.0 - 10	< 5
SM154S	YES	1.08	9.00	2.8	27/81	2	*	3	0	<0.5		< 5	< 5		1.0 - 15	< 5	1.0 - 10	< 5
SM171S	YES	1.08	9.00	3.7	18/64	2	*	3	0				< 5	<15	1.0 - 15	<10		
SM172S	YES	1.08	9.00	2.7	27/81	2	*	3	0	<0.5			< 5		1.0 - 15		1.0 - 10	< 5
SM177S		1.09	9.05	2.4	42/108	2	*	2	0		< 5		< 5		1.0 - 15	< 5	1.0 - 10	< 5
SM302G	YES	1.22	10.14	2.7	18/64	2	*	3	0				< 5	<10			< 5	
SM311G		1.04	8.70	2.9	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM312G		1.04	8.65	2.7	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM313G		1.02	8.51	2.7	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM314G		1.03	8.62	2.7	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM315G	YES	1.13	9.41	2.8	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM317G		1.12	9.32	9.3	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM320G	YES	1.03	8.60	2.7	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM321G		1.04	8.70	2.7	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM322G	YES	1.09	9.12	2.7	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM323G	YES	1.03	8.62	2.7	27/81	2	*	3	0			< 5	< 1		< 5	< 5	<10	< 5
SM325G		1.02	8.55	8.6	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM330G		1.04	8.71	2.7	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM331G	YES	1.12	9.37	3.1	-20/-4	2	*	3	0			< 5	< 5			<15		
SM332G		1.10	9.17	2.8	27/81	2	*	3	0			< 5				<15	<10	
SM340G		1.03	8.61	2.7	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM342G		1.04	8.69	2.6	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM343G		1.28	10.68	3.1	42/108	2	*	2	0				< 1		<10		< 5	< 5
SM346G		1.14	9.50	3.2	27/81	2	*	3	0			< 5	< 1		<10		<10	< 5
SM347G		1.03	8.58	2.7	18/64	2	*	3	0				< 5	<10	< 5		< 5	
SM377G		1.05	8.74	2.7	27/81	2	*	3	0			< 5	< 1		< 5	< 5	<10	< 5

CARCINOGENICITY:										
	IARC	No	No	No	YES	No	No	No	No	No
	NTP	No	No	No	No	No	No	No	No	No
	OSHA	No	No	No	No	No	No	No	No	No

**See additional information regarding VOC in section IX.

§ See HMIS Key on page 1.

Table 2
ADDITIONAL INGREDIENTS

Product Code	Acetone CAS# 67-64-1	Aluminum CAS# 7429-90-5	Aluminum Hydroxide CAS# 21645-51-2	Aluminum Oxide CAS# 1344-28-1	Carbon Black CAS# 1333-86-4	Crystalline Silica CAS# 14808-60-7	Fumed Silica CAS# 112945-52-5	Iron oxide CAS# 1332-37-2	Light Aromatic Solvent Naphtha CAS# 64742-95-6	Manganese Oxide CAS# 1313-13-9	Naphtha, Hydrodesulfurized Heavy CAS# 64742-82-1	Pigment Modifier 60A TS160210005A	Silicon Dioxide (amorphous) CAS# 7631-86-9	Stoddard Solvent CAS# 8052-41-3	Titanium Dioxide CAS# 13463-67-7
SM102S			< 5										< 5		<30
SM115S								<15							
SM122S				< 5				<10		< 5					
SM123S					< 5	<0.5	< 5								
SM140S							< 5								
SM151S		<10							< 5		< 5				
SM152S		< 5													
SM153S		< 5													
SM154S		<10							< 5		< 5				
SM171S		<15							< 5					< 5	
SM172S		< 5			< 5		< 5								< 5
SM302G			< 5												
SM315G								<15							
SM320G												< 5	< 5		<30
SM322G				< 5		<0.5		<15		< 5					
SM323G					< 5										
SM331G	<10														

CARCINOGENICITY:																
	IARC	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	Yes
	NTP	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
	OSHA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

Immediate (Acute) Health Effects (for all products in the Mark 1 Colorant A Family, unless specified otherwise):

Inhalation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations of solvents in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. Dusts generated by dried coating may be irritating to the respiratory tract.

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

Eye Contact: *For products containing **n-Butyl Acetate** (excludes SM120S, SM171S, SM331G):* Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

For products SM120S, SM171S, SM331G: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

All products: Dried coating can cause mechanical irritation if dusts are generated.

Skin Absorption: Harmful if absorbed through the skin. May cause severe irritation and 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, Central nervous system stimulation, PNS, Kidneys, Liver, Heart, Blood, Digestive Tract, Bone Marrow, Cardiovascular System, Lymphatic System, Thyroid, Pituitary, Testes, Nervous System.

Long-Term (Chronic) Health Effects (for all products in the Mark 1 Colorant A Family, unless specified otherwise):

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Prolonged or repeated inhalation may cause kidney and lung damage.

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: *For products SM120S, SM171S, SM331G:* Upon prolonged or repeated contact, can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

*For products containing **n-Butyl Acetate**(excludes SM120S, SM171S, SM331G):* Upon prolonged or repeated contact, can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

All products: Upon prolonged or repeated contact, dust generated from contact with dried coating can cause mechanical irritation.

Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Carcinogenicity: See Tables 1 and 2 on pages 2 and 3.

Target Organ Chronic Toxicity: Respiratory System, Nervous System, Eyes, Skin, Central nervous system stimulation, PNS, Kidneys, Liver, Heart, Blood, Digestive Tract, Lymphatic System, Pituitary, Testes.

NOTICE for all products: 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.

*For products containing **Titanium Dioxide**:* 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.

*For products containing **Ethylbenzene**:* 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.

*For products containing **Crystalline Silica**:* Cutting, sanding or grinding dried or cured material may release particles of crystalline silica (quartz). Exposure to airborne particles may cause lung damage including a risk of cancer. Chronic exposure may result in chest pain, difficulty breathing, lung damage and silicosis. (Silicosis is the permanent deposition of silica in lung tissue that results in lung damage.) There may exist a relationship between silicosis and certain cancers.

All products: 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 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 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.

Notes to M.D. Acute massive exposure to toluene can cause transient hematuria and albuminuria. Cardiac arrhythmias can occur after massive inhalation.

V. FIRE FIGHTING MEASURES

Flashpoints for individual products can be found in Table 1 on page 2.

FLASH POINT VALUE (C/F)	FLAMMABILITY SUMMARY
-20/-4	Extremely Flammable
4/39	Highly Flammable
18/64	Highly Flammable

FLASH POINT VALUE (C/F)	FLAMMABILITY SUMMARY
27/81	Flammable
42/108	Combustible

Autoignition Temperature: 226 °C (min); 439 °F (max)

Lower Flammable/Explosive Limit, % in air: 1.0 (min) **Upper Flammable/Explosive Limit, % in air:** 13.1 (max)

Fire Hazards: Can form explosive mixtures at temperatures at or above the flash point. 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 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. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. 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 spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to 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 toxic 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, ketones, aldehydes, aromatic compounds, halogenated compounds, 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. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation. 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. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. 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: 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. Use spark-proof tools and explosion-proof equipment. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. Keep in air-tight containers-material is hygroscopic. Remove contaminated clothing and wash before reuse. Launder work clothes frequently. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Minimize dust generation and accumulation. Follow all protective equipment recommendations provided in Section VIII. Avoid breathing material.

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.

VIII. ENGINEERING CONTROLS, PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE LIMITS

Engineering Controls: Local exhaust ventilation, process enclosures, or other engineering controls are important when handling or using this product to avoid overexposure. Engineering controls must be designed to meet any relevant OSHA chemical specific standards in 29 CFR 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 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.
Acetone	67-64-1	500 ppm TWA750 ppm STEL	1000 ppm TWA; 2400 mg/m3 TWA	2500 ppm IDLH
Aluminum	7429-90-5	10 mg/m3 TWA (metal dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not determined.
Aluminum hydroxide	21645-51-2	No TLV	No PEL established	Not determined.
Aluminum oxide	1344-28-1	10 mg/m3 TWA (as Al, particulate matter containing no asbestos and < 1% crystalline silica)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not determined.
Amorphous silica, silicon dioxide	112926-00-8	10 mg/m3 TWA	No PEL established	Not determined.
Carbon black	1333-86-4	3.5 mg/m3 TWA	3.5 mg/m3 TWA	1750 mg/m3 IDLH
Crystalline Silica	14808-60-7	0.05 mg/m3 TWA (respirable fraction)	(250)/(%SiO2 + 5) mppcf (respirable); (10 mg/m3)/(%SiO2 + 2) (respirable); (30 mg/m3)/(%SiO2 + 2) (Total Dust)	50 mg/m3 IDLH (respirable dust)
Ethyl-3-Ethoxypropionate	763-69-9	No TLV	No PEL established	Not determined.
Ethylbenzene	100-41-4	100 ppm TWA125 ppm STEL	100 ppm TWA; 435 mg/m3 TWA	800 ppm IDLH
Fumed silica	112945-52-5	No TLV	Respirable Dust: 20 mppcf	Not determined.
Iron oxide	1332-37-2	No TLV	No PEL established	Not determined.
Isobutyl Acetate	110-19-0	150 ppm TWA	150 ppm TWA; 700 mg/m3 TWA	1300 ppm IDLH
Light Aromatic Solvent Naphtha	64742-95-6	No TLV	No PEL established	Not determined.
Manganese Oxide	1313-13-9	No TLV	As Mn: 5 mg/m3 Ceiling	Not determined.
Methoxypropanol acetate	108-65-6	No TLV	No PEL established	Not determined.
Methyl n-amyl ketone	110-43-0	50 ppm TWA	100 ppm TWA; 465 mg/m3 TWA	800 ppm IDLH

Naphtha, hydrodesulfurized heavy	64742-82-1	No TLV	No PEL established	Not determined.
n-Butyl acetate	123-86-4	150 ppm TWA200 ppm STEL	150 ppm TWA; 710 mg/m3 TWA	1700 ppm IDLH
p-Chlorobenzotrifluoride	98-56-6	No TLV	No PEL established	Not determined.
Pigment Modifier 60A	TS16021005A	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
Stoddard solvent	8052-41-3	100 ppm TWA	500 ppm TWA; 2900 mg/m3 TWA	20000 mg/m3 IDLH
Titanium dioxide	13463-67-7	10 mg/m3 TWA	15 mg/m3 TWA (total dust)	5000 mg/m3 IDLH
Toluene	108-88-3	50 ppm TWA	200 ppm TWA300 ppm Ceiling	500 ppm IDLH
Xylene	1330-20-7	100 ppm TWA150 ppm STEL	100 ppm TWA; 435 mg/m3 TWA	900 ppm IDLH

IX. PHYSICAL DATA

Appearance: Liquid. Color varies by product.

Odor: Hydrocarbon Ketone

pH: Data not available.

Octanol/Water Coeff: Not Determined.

Solubility in Water: Partial.

Vapor Pressure (mmHg): Data not available.

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.

Specific Gravity/Density: See Table 1 on page 2.

V.O.C.** See Table 1 on page 2.

**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. *Some products may contain components (see Section II) not included in the VOC calculation. Individual states may have other regulations. Please check with your state.*

Initial Boiling Point 56 °C; 133 °F

X. STABILITY AND REACTIVITY

Stability Information: Stable under normal conditions.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated temperatures. Contamination.

Chemical Incompatibility: Strong acids, Strong alkalies, Ethylene oxide, Strong oxidizing agents, Acids, Caustics (bases), Chlorine.

Hazardous Decomposition Products: None under normal conditions of use. See section V for Hazardous Combustion Products.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Acetone	Inhalation LC50 Rat: 50100 mg/m3/8H; Inhalation LC50 Mouse: 44 gm/m3/4H; Oral LD50 Rat: 5800 mg/kg; Oral LD50 Mouse: 3 gm/kg
n-Butyl Acetate	Inhalation LC50 Rat: 2000 ppm/4H; Inhalation LC50 Mouse: 6 gm/m3/2H; Oral LD50 Rat: 10768 mg/kg; Oral LD50 Mouse: 6 gm/kg; Dermal LD50 Rabbit: >17600 mg/kg
Carbon Black	Oral LD50 Rat: >15400 mg/kg; Dermal LD50 Rabbit: >3 gm/kg
p-Chlorobenzotrifluoride	Inhalation LC50 Rat: 22 gm/m3; Inhalation LC50 Mouse: 20 gm/m3; Oral LD50 Rat: 13 gm/kg; Oral LD50 Mouse: 11500 mg/kg
Ethyl-3-Ethoxypropionate	Oral LD50 Rat: 5 gm/kg; Dermal LD50 Rabbit: 10 mL/kg
Ethylbenzene	Oral LD50 Rat: 3500 mg/kg; Dermal LD50 Rabbit: 17800 uL/kg
Fumed Silica	Oral LD50 Rat: 3160 mg/kg
Isobutyl Acetate	Oral LD50 Rat: 13400 mg/kg; Dermal LD50 Rabbit: >17400 mg/kg
Light Aromatic Solvent Naphtha	Oral LD50 Rat: 8400 mg/kg
Manganese Dioxide	Oral LD50 Rat: >3478 mg/kg
Methoxypropanol Acetate	Oral LD50 Rat: 8532 mg/kg; Dermal LD50 Rabbit: >5 gm/kg
Methyl n-Amyl Ketone	Oral LD50 Rat: 1670 mg/kg; Oral LD50 Mouse: 730 mg/kg; Dermal LD50 Rabbit: 12600 uL/kg
Toluene	Inhalation LC50 Rat: 49 gm/m3/4H; Inhalation LC50 Mouse: 400 ppm/24H; Oral LD50 Rat: 636 mg/kg; Dermal LD50 Rabbit: 14100 uL/kg

1,2,4-Trimethylbenzene	Inhalation LC50 Rat: 18 gm/m3/4H; Oral LD50 Rat: 5 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.

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: D001

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.

Acetone	67-64-1	Xylenes (o-, m-, p- isomers)	1330-20-7
Toluene	108-88-3	Ethyl benzene	100-41-4

XIV. TRANSPORTATION INFORMATION

Agency	Basic Description and Label
DOT	Paint, 3, UN1263, PG II; Label Required: Flammable Liquid.

Hazardous Substance

Acetone	RQ = 5000 pounds (2270 kg); also listed as 2-Propanone
Toluene	final RQ = 1000 pounds (454 kg); also listed as Benzene, methyl-
n-Butyl acetate	RQ = 5000 pounds (2270 kg)
Xylenes (isomers and mixture)	RQ = 100 pounds (45.4 kg); also listed as Xylene; also listed as Xylene (mixed); also listed as Benzene, dimethyl-
Ethyl benzene	RQ = 1000 pounds (454 kg)

XV. REGULATORY INFORMATION

Regulation

SARA 313 Reportable : Toluene, Aluminum, Xylene (mixed isomers), Manganese Compounds, Copper Compounds, Aluminum oxide, ., ethylbenzene, 1,2,4-Trimethylbenzene

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) : Toluene, Xylenes (nos), Manganese (IV) oxide, ethylbenzene.

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.

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