



## MATERIAL SAFETY DATA SHEET

*For Spraylat Liquid Coatings and Associated Liquid Materials*

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**Chemtrec**

### I. CHEMICAL PRODUCT IDENTIFICATION

Product Name : **Mark 1 Primer Part B**

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Revision Number : 2  
Supercedes : 12/16/05

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

INGREDIENT NAME	CAS #	%
Toluene	108-88-3	40.01 - 50.00
Isopropanol	67-63-0	15.01 - 20.00
n-Butyl alcohol	71-36-3	15.01 - 20.00
4-Hydroxy-4-methyl-2-pentanone	123-42-2	1.01 - 5.00
Benzyl alcohol	100-51-6	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
<b>HEALTH</b>	2
<b>FLAMMABILITY</b>	3
<b>REACTIVITY</b>	0

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

**Routes of Entry:**

Inhalation, Absorption, Skin contact, Eye contact, Ingestion.

**Medical Conditions Aggravated:**

Skin allergies, Skin disease including eczema and sensitization, Eye disease, Respiratory disease including asthma and bronchitis, Liver disease.

**Immediate (Acute) Health Effects:**

**Inhalation:**

Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Harmful if inhaled.

**Skin Contact:**

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

**Eye Contact:**

Irritating and may injure eye tissue if not removed promptly.

**Skin Absorption:**

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

**Ingestion:**

Harmful if swallowed. May cause systemic poisoning. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

<b>Target Organ Acute Toxicity:</b>	Heart, Kidneys, Skin, Respiratory System, Eyes, Nervous System, Liver.
<b><u>Long-Term (Chronic) Health Effects:</u></b>	
<b>Inhalation:</b>	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Repeated or prolonged inhalation may cause toxic effects.
<b>Skin Contact:</b>	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
<b>Eye Contact:</b>	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.
<b>Skin Absorption</b>	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause minor systemic damage.
<b>Carcinogenicity:</b>	IARC: No                      NTP: No                      OSHA: No
<b>Target Organ Chronic Toxicity:</b>	Respiratory System, Nervous System, Heart, Kidneys, Skin, Eyes, Liver.  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.

#### IV. FIRST AID

<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
<b>Eyes:</b>	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.
<b>Skin Contact:</b>	Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.
<b>Ingestion:</b>	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.
<b>Notes to M.D.</b>	Acute massive exposure to toluene can cause transient hematuria and albuminuria. Cardiac arrhythmias can occur after massive inhalation.

#### V. FIRE FIGHTING MEASURES

<b><u>Flammability Summary:</u></b>	<b>Highly Flammable</b>
<b>Flash Point:</b>	4 °C;                      39 °F
<b>Autoignition Temperature:</b>	343 °C;                      649 °F
<b>Lower Flammable/Explosive Limit, % in air:</b>	1.1 <b>Upper Flammable/Explosive Limit, % in air:</b> 12.0
<b>Fire Hazards:</b>	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.
<b>Extinguishing Media:</b>	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.
<b>Fire Fighting Instructions:</b>	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. Do not point solid water stream directly into burning oil to avoid spreading. Even if material is water soluble, may not be practical to extinguish fire by water dilution.

<b>Hazardous Combustion Products:</b>	Carbon dioxide, Carbon monoxide.
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**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. 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.

**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:**

Do not flush to sewer. 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. Use non-sparking tools when opening or closing containers. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

**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. Facilities storing or using this material should be equipped with an eyewash and safety shower. Engineering controls must be designed to meet any relevant OSHA chemical specific standards in 29 CFR 1910.

**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. A supplied air type respirator may be required.

**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
Toluene	108-88-3	50 ppm TWA	200 ppm TWA 300 ppm Ceiling	Not determined.
Isopropanol	67-63-0	(400) ppm TWA; (983) mg/m <sup>3</sup> TWA 500 ppm STEL	400 ppm TWA; 980 mg/m <sup>3</sup> TWA	2000 ppm IDLH
n-Butyl alcohol	71-36-3	20 ppm TWA	100 ppm TWA; 300 mg/m <sup>3</sup> TWA	1400 ppm IDLH
4-Hydroxy-4-methyl-2-pentanone	123-42-2	50 ppm TWA	50 ppm TWA; 240 mg/m <sup>3</sup> TWA	1800 ppm IDLH
Benzyl alcohol	100-51-6	No TLV	No PEL established	Not determined.

**IX. PHYSICAL DATA**

<b>Appearance:</b>	Clear Liquid.		
<b>Color:</b>	Clear		
<b>Odor:</b>	Hydrocarbon		
<b>pH:</b>	N/A		
<b>Octanol/Water Coeff:</b>	Not Determined.		
<b>Solubility in Water:</b>	Partial.		
<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>	Faster than n-Butyl acetate.		
<b>Specific Gravity/Density:</b>	0.862 / 7.19 Lbs./G1.		
<b>V.O.C.</b>	6.27 Lbs/G1 less water & exempt solvent;	752 g/l less water & exempt solvent;	6.3 Lbs/G1 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:** 111 °C; 232 °F

**X. STABILITY AND REACTIVITY**

<b>Stability Information:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Contamination.
<b>Chemical Incompatibility:</b>	Strong alkalis, Air, Mineral acids, Caustics (bases), Amines, Isocyanates, Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide, Carbon monoxide.

**XI. TOXICOLOGICAL INFORMATION**

Chemical Name	LD50/LC50
Toluene	Inhalation LC50 Rat: 49 gm/m <sup>3</sup> /4H; Inhalation LC50 Mouse: 400 ppm/24H; Oral LD50 Rat: 636 mg/kg; Dermal LD50 Rabbit: 14100 uL/kg
Isopropyl alcohol	Inhalation LC50 Rat: 16000 ppm/8H; Oral LD50 Rat: 5045 mg/kg; Oral LD50 Mouse: 3600 mg/kg; Dermal LD50 Rabbit: 12800 mg/kg
Butyl alcohol	Inhalation LC50 Rat: 8000 ppm/4H; Oral LD50 Rat: 790 mg/kg; Oral LD50 Mouse: 2680 mg/kg; Dermal LD50 Rabbit: 3400 mg/kg
2-Pentanone, 4-hydroxy-4-methyl-	Oral LD50 Rat: 4 gm/kg; Oral LD50 Mouse: 3950 mg/kg; Dermal LD50 Rabbit: 13500 mg/kg
Benzyl alcohol	Oral LD50 Rat: 1230 mg/kg; Oral LD50 Mouse: 1360 mg/kg; Dermal LD50 Rabbit: 2 gm/kg

**XII. ECOLOGICAL INFORMATION**

**Overview:** Care should be taken to minimize releases of any industrial chemicals to the environment.

**XIII. DISPOSAL CONSIDERATIONS**

<b>Waste Description for Unused Product:</b>	Spent or discarded material is a hazardous waste.
<b>Disposal Methods:</b>	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.
<b>Potential EPA Waste Codes:</b>	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.

Toluene	108-88-3
n-Butyl alcohol	71-36-3

**XIV. TRANSPORTATION INFORMATION****Agency Basic Description and Label**

**DOT** Paint, 3, UN1263, PG II; Label Required: Flammable Liquid.

**Hazardous Substance**

Toluene	final RQ = 1000 pounds (454 kg); also listed as Benzene, methyl-
1-Butanol	RQ = 5000 pounds (2270 kg); also listed as n-Butyl alcohol

**XV. REGULATORY INFORMATION****Regulation**

SARA 313 Reportable :	Toluene, Isopropyl alcohol, ., n-Butyl alcohol
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.

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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