



## MATERIAL SAFETY DATA SHEET

*For Spraylat Liquid Coatings and Associated Liquid Materials*

1701 East 122nd Street  
Chicago, IL 60633  
(773) 646-5900  
Fax: (773) 646-3743

716 South Columbus Avenue  
Mount Vernon, NY 10550  
(914) 699-3030  
Fax: (914) 699-3035

3465 South La Cienega Blvd.  
Los Angeles, CA 90016  
(310) 559-2335  
Fax: (310) 836-6094

3333 North Interstate 35  
Gainesville, TX 76240  
(940) 665-9590  
Fax: (940) 665-8867

e-mail [HSEcoordinator@Spraylat.com](mailto: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

### I. CHEMICAL PRODUCT IDENTIFICATION

Product Name : **Mark 1 SM-150V VOC Compliant Catalyst**

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Revision Date : 09/15/05

Supercedes : 04/01/05

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

INGREDIENT NAME	CAS #	%
p-Chlorobenzotrifluoride	98-56-6	75.01 - 100.00
Resin, Polyisocyanate	TS18210000	15.01 - 20.00
n-Butyl acetate	123-86-4	1.01 - 5.00
Light Aromatic Solvent Naphtha	64742-95-6	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>	1
<b>FLAMMABILITY</b>	2
<b>REACTIVITY</b>	0

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

**Routes of Entry:**

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

**Medical Conditions Aggravated:**

Eye disease, Skin disease including eczema and sensitization.

**Immediate (Acute) Health Effects:**

**Inhalation:**

Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Vapors or mist of Hexamethylene Diisocyanate (HDI) or polyisocyanates can irritate mucous membranes in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and obstruct breathing. Susceptible individuals with preexisting bronchial hyperreactivity may exhibit similar symptoms at low concentrations in addition to an asthma attack. High exposure may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitive pneumonitis (flu-like symptoms, including fever and chills) is possible. These effects are usually reversible.

**Skin Contact:**

HDI and polyisocyanates can cause skin irritation with symptoms such as reddening, swelling, rash, scaling and blistering. Skin sensitization is possible in some individuals. Cured HDI is difficult to remove. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

<b>Eye Contact:</b>	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.
<b>Skin Absorption:</b>	May cause irritation and minor systemic damage.
<b>Ingestion:</b>	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.
<b>Target Organ Acute Toxicity:</b>	Eyes, Skin, Respiratory System, CNS.
<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. Overexposure to isocyanates like HDI and polyisocyanates can induce isocyanate sensitization (chemical asthma). Individuals with this condition will react to an isocyanate exposure at levels well below acceptable exposure limits. Symptoms such as chest tightness, wheezing, cough, shortness of breath or asthmatic attack could be immediate or delayed up to several hours after exposure. Dust, cold air or other irritants can trigger symptoms in sensitized individuals. This can persist for weeks and in severe cases for several years. Chronic overexposure to isocyanates can cause physiological changes in the lungs and a decrease in lung function. Lung damage may be permanent. Pulmonary sensitization may be either temporary or permanent.
<b>Skin Contact:</b>	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. Prolonged contact with HDI or polyisocyanates can cause symptoms similar to acute skin exposure (see above). In skin sensitized individuals symptoms can develop after contact with very small amounts or even as a result of vapor-only exposure.
<b>Eye Contact:</b>	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.
<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>	Eyes, Skin, Respiratory System, CNS.  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 and have a trained individual administer oxygen. 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 and laundry. Get medical attention if irritation develops or persists.
<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.

**V. FIRE FIGHTING MEASURES**

<b><u>Flammability Summary:</u></b>	<b>Combustible</b>
<b>Flash Point:</b>	46 °C;                      115 °F
<b>Autoignition Temperature:</b>	N/A

**Fire Hazards:**

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. 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 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, Nitrogen containing gases, Hydrogen cyanide, Isocyanates.

**VI. ACCIDENTAL RELEASE MEASURES**

**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. 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:**

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Do not get in eyes, on skin and clothing. 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.

**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 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.

**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
p-Chlorobenzotrifluoride	98-56-6	No TLV	No PEL established	Not determined.
Resin, Polyisocyanate	TS18210000	No TLV	No PEL established	Not determined.

n-Butyl acetate	123-86-4	150 ppm TWA 200 ppm STEL	150 ppm TWA; 710 mg/m <sup>3</sup> TWA	1700 ppm IDLH
Light Aromatic Solvent Naphtha	64742-95-6	No TLV	No PEL established	Not determined.

**IX. PHYSICAL DATA**

<b>Appearance:</b>	Colorless Liquid.		
<b>Color:</b>	Colorless		
<b>pH:</b>	N/A		
<b>Octanol/Water Coeff:</b>	Not Determined.		
<b>Vapor Density:</b>	N/A		
<b>Evaporation Rate:</b>	Slower than n-Butyl Acetate.		
<b>Specific Gravity/Density:</b>	1.282 / 10.7 Lbs./G1.		
<b>V.O.C.</b>	0.9 Lbs/G1 less water & exempt solvent;	108 g/l less water & exempt solvent;	0.2 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.

<b>Initial Boiling Point:</b>	141 °C;	286 °F
<b>Initial Freezing Point:</b>	N/A	

**X. STABILITY AND REACTIVITY**

<b>Stability Information:</b>	Stable under normal conditions. Reacts slowly with water to liberate carbon dioxide.
<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 oxidizing agents, Chlorine.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide, Carbon monoxide, Isocyanates, Hydrogen cyanide, Nitrogen containing gases.

**XI. TOXICOLOGICAL INFORMATION**

Chemical Name	LD50/LC50
Toluene, p-chloro-.alpha.,alpha.,alpha.-trifluoro-	Inhalation LC50 Rat: 22 gm/m <sup>3</sup> ; Inhalation LC50 Mouse: 20 gm/m <sup>3</sup> ; Oral LD50 Rat: 13 gm/kg; Oral LD50 Mouse: 11500 mg/kg
Acetic acid, butyl ester	Inhalation LC50 Rat: 2000 ppm/4H; Inhalation LC50 Mouse: 6 gm/m <sup>3</sup> /2H; Oral LD50 Rat: 10768 mg/kg; Oral LD50 Mouse: 6 gm/kg; Dermal LD50 Rabbit: >17600 mg/kg
Solvent naphtha, light aromatic	Oral LD50 Rat: 8400 mg/kg

**XII. ECOLOGICAL INFORMATION**

<b>Overview:</b>	Care should be taken to minimize releases of any industrial chemicals to the environment.
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**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. None expected.

**XIV. TRANSPORTATION INFORMATION**

<b>Agency Basic Description and Label</b>	
<b>DOT</b>	Paint, 3, UN1263, PG III

**Hazardous Substance**

n-Butyl acetate RQ = 5000 pounds (2270 kg)

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

SARA 313 Reportable :	This product contains no Section 313 chemicals at or above de minimis values.
TSCA Inventory :	All components of this product are listed in, or exempt from, the TSCA 8(b) Inventory.
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.

*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.*

