



MATERIAL SAFETY DATA SHEET

For Spraylat Liquid Coatings and Associated Liquid Materials

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Chemtrec

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Chemtrec

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name : **Mark 1 SM-195V 3.5 VOC Reducer**

Date Printed : 07/17/07
Revision Date : 07/09/04
Supercedes : None

Revision Number : 1

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

INGREDIENT NAME	CAS #	%
p-Chlorobenzotrifluoride	98-56-6	50.01 - 75.00
Methyl n-amyl ketone	110-43-0	40.01 - 50.00
Dimethyl succinate	106-65-0	1.01 - 5.00
Dimethyl Glutarate	1119-40-0	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
HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

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

Routes of Entry:

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

Medical Conditions Aggravated:

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

Immediate (Acute) Health Effects:

Inhalation:

Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.

Skin Contact:

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

Eye Contact:

Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin Absorption:

May cause irritation and minor systemic damage. Can be absorbed through the skin but exposure must be extensive before adverse health effects occur.

Ingestion:

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

Target Organ Acute Toxicity:

Eyes, Skin, CNS, Respiratory System, PNS, Kidneys, Liver.

Long-Term (Chronic) Health Effects:**Inhalation:**

Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. Prolonged or repeated inhalation may cause 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:

Upon prolonged or repeated contact, can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin Absorption

Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause minor systemic damage.

Carcinogenicity:

IARC: No NTP: No OSHA: No

Target Organ Chronic Toxicity:

Respiratory System, Eyes, Skin, CNS, PNS, Kidneys, 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**Inhalation:**

Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. Seek medical attention if symptoms persist. Get medical attention immediately.

Eyes:

Flush eyes with plenty of 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.

Skin Contact:

Wash with soap and water. Get medical attention if irritation develops or persists. As a good general hygienic rule, if clothing comes in contact with the product, the clothing should be laundered before re-use.

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:****Flash Point:**

Combustible 39 °C; 102 °F

Autoignition Temperature:

393 °C; 739 °F

Lower Flammable/Explosive Limit, % in air:0.9 **Upper Flammable/Explosive Limit, % in air:** 8.5**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, 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.

Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases.

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. 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:

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. Remove contaminated clothing and wash before reuse.

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, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure. 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. Wear a NIOSH approved respirator if any exposure is possible.

Eyes:

Wear safety glasses with side shields when handling this product. Do not wear contact lenses. 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.

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.
Methyl n-amyyl ketone	110-43-0	50 ppm TWA	100 ppm TWA; 465 mg/m3 TWA	800 ppm IDLH
Dimethyl succinate	106-65-0	No TLV	No PEL established	Not determined.
Dimethyl Glutarate	1119-40-0	No TLV	No PEL established	Not determined.

IX. PHYSICAL DATA

Appearance:

Clear Liquid.

Color:

Clear

Odor:

Ketone

pH:

N/A

Octanol/Water Coeff:

Not Determined.

Solubility in Water:

Negligible.

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:	1.034 / 8.63 Lbs./G1.		
V.O.C.	6.4 Lbs/G1 less water & exempt solvent;	768 g/l less water & exempt solvent;	3.8 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:	141 °C;	286 °F
Initial Freezing Point:	N/A	

X. STABILITY AND REACTIVITY

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

XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Toluene, p-chloro-.alpha.,alpha.,alpha.-trifluoro-	Inhalation LC50 Rat: 22 gm/m3; Inhalation LC50 Mouse: 20 gm/m3; Oral LD50 Rat: 13 gm/kg; Oral LD50 Mouse: 11500 mg/kg
2-Heptanone	Oral LD50 Rat: 1670 mg/kg; Oral LD50 Mouse: 730 mg/kg; Dermal LD50 Rabbit: 12600 uL/kg
Succinic acid, dimethyl ester	Oral LD50 Rat: >5 gm/kg; Dermal LD50 Rabbit: >5 gm/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 Unused 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. None expected.

XIV. TRANSPORTATION INFORMATION

Agency Basic Description and Label

DOT Paint, 3, UN1263, PG III

Hazardous Substance

None expected.

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.

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