



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-190V Urethane Retarder**

Date Printed : 05/02/08
Revision Date : 10/04/07

Revision Number : 2
Supercedes : 07/09/04

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

INGREDIENT NAME	CAS #	%
Dimethyl succinate	106-65-0	50.01 - 75.00
Dimethyl Glutarate	1119-40-0	30.01 - 40.00

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:

Inhalation, Ingestion, Skin contact, Eye contact.

Medical Conditions Aggravated:

Eye disease, Skin disease including eczema and sensitization, 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 skin irritation.

Eye Contact:

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

Skin Absorption:

Minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

Ingestion:

May be slightly toxic by ingestion. Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

Target Organ Acute Toxicity:

Eyes, Skin, Respiratory Tract.

Land Spills:

Avoid runoff into storm sewers and ditches that lead to waterways.

VII. HANDLING AND STORAGE**Handling:**

Mildly irritating material. Avoid unnecessary exposure. 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. Remove contaminated clothing and wash before reuse.

Storage:

Store in a cool dry place. Isolate from incompatible materials. Keep container closed when not in use.

VIII. ENGINEERING CONTROLS, PERSONAL PROTECTIVE EQUIPMENT, AND EXPOSURE LIMITS**Engineering Controls:**

Engineering controls must be designed to meet any relevant OSHA chemical specific standards in 29 CFR 1910. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Protective Equipment:**Respiratory Tract:**

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained in Section III. If a respirator is warranted, follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements. 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:

Not normally considered a significant skin irritant. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious gloves. 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
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

pH:

N/A

Octanol/Water Coeff:

Not Determined.

Solubility in Water:

Moderate.

Vapor Density:

N/A

Evaporation Rate:

Slower than n-Butyl Acetate.

Specific Gravity/Density:

1.099 / 9.17 Lbs./Gl.

V.O.C.

3.03 Lbs/Gl less water & exempt solvent;

363 g/l less water & exempt solvent;

3.0 Lbs/Gl 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:

190 °C;

374 °F

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
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.