



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 : **Lacryl 218 Retarder**

Date Printed : 05/21/02
Revision Date : 11/05/01
Supercedes : 03/06/00

Revision Number : 4

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

INGREDIENT NAME	CAS #	%
Diethylene glycol mono-n-butyl ether	112-34-5	75.01 - 100.00

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:

Skin contact, Eye contact, Absorption,.

Immediate (Acute) Health Effects:

Inhalation:

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

Skin Contact:

Can cause minor skin irritation, defatting, and dermatitis.

Eye Contact:

Contact with the eyes may 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.

Skin Absorption:	May cause irritation and minor systemic damage.
Ingestion:	Not normally toxic by ingestion. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
<u>Long-Term (Chronic) Health Effects:</u>	
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.
Eye Contact:	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.
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

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.
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. 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

<u>Flammability Summary:</u>	Combustible		
Flash Point:	78 ° C;	172 ° F	
Autoignition Temperature:	204 ° C;	428 ° F	
Lower Flammable/Explosive Limit, % in air:	0.8	Upper Flammable/Explosive Limit, % in air:	24.6
Fire Hazards:	Material may be ignited if preheated to temperatures above the flash point in the presence of a source of ignition.		
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.		
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide,.		

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. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

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:**

Mildly irritating material. Avoid unnecessary exposure. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage:

Store in a cool dry place. Isolate from incompatible materials.

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.

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.

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:

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:

Heat insulating gloves

CHEMICAL NAME	CAS #	ACGIH TLV	OSHA PEL	IDLH
Diethylene glycol mono-n-butyl ether	112-34-5	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:

Complete.

Vapor Density:

Heavier than air. Vapors that evolve from this product will tend to settle and accumulate near the floor.

Evaporation Rate:

Not determined

Specific Gravity/Density:

0.952 / 7.94 Lbs./G1.

V.O.C.

7.9 Lbs/G1 less water & exempt solvent;

947 g/l less water & exempt solvent;

7.9 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: N/A

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.
Chemical Incompatibility: Strong oxidizing agents,.
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide,.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Ethanol, 2-(2-butoxyethoxy)-	Oral LD50 Rat : 5660 mg/kg; Oral LD50 Mouse : 2400 mg/kg; Dermal LD50 Rabbit : 2700 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 not expected to be 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: Not determined., ,.

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 Not regulated per DOT.

Hazardous Substance
 None expected.

XV. REGULATORY INFORMATION

Regulation
 SARA 313 Reportable : Ethanol, 2-(2-butoxyethoxy)-,
 TSCA Inventory : All components of this product are listed in, or exempt from, the TSCA 8(b) Inventory.
 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."
 M.S.D.S. Reportable HAP(s) : Diethylene glycol mono-n-butyl ether,.

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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