

MATERIAL SAFETY DATA SHEET

Effective Date: September 1, 1999

SECTION I PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME OR NUMBER

IMAGEGARD® LV-1 Series
Photographic Coatings

EMERGENCY PHONE NUMBER

Chemtrec 800/424-9300
Manufacturer 412/922-2536

MANUFACTURER NAME/ADDRESS

Dacar Products Company, Inc.
1019 McCartney Street
Pittsburgh, PA 15220

HAZARDOUS MATERIAL PROPER NAME

Not Regulated

HAZARD CLASS/UN-NA NUMBER/PKG GROUP

Not Regulated

CHEMICAL FAMILY

Epoxide Mixture

FORMULA

See Sec.II

HAZARD RATINGS

	NPCA-HMIS
Health	2
Flammability	2
Reactivity	1
Personal Protection	B

Keys to Hazard Ratings

4 = Severe	1 = Slight
3 = Serious	0 = Minimal
2 = Moderate	B = Gloves & Goggles

SECTION II CHEMICAL COMPONENTS

	<u>TLV/TWA</u>	<u>CAS NUMBER</u>	<u>PCT.</u>
Gamma-Glycidoxypropyl-trimethoxysilane	NE / NE	2530-83-8	65 – 80
Limonene Monoxide	NE / NE	1195-92-2	7 – 15
Propylene Carbonate	NE / NE	108-32-7	2 – 5
Mixed Triarylsulfonium-hexafluorantimonate salts	NE / NE	89452-37-9/ 71449-78-0	2 – 5

NE = Not Established

SECTION III PHYSICAL DATA

Boiling point (°C/°F)	> 150 / 300	Solubility in Water	Negligible
Vapor pressure (@ 20°C)	< 5 mm	Specific Gravity	1.1
Vapor density (air=1)	N / A	Evaporation Rate	
Organic Volatiles (g/l VOC) (ASTM D5403-93)	< 150	(Ethyl ether=1)	< 1

APPEARANCE

Clear, light yellow liquid

ODOR

Mild odor

MATERIAL IS A

Liquid

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP)	LEL	UEL	IGNITION TEMP.	EXTINGUISHING MEDIA
> 73°C / 164°F (Tag)	N/E	N/E	N/E	Regular foam or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES

Wear self-contained breathing apparatus when fighting fire in contained space.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors are heavier than air and may travel along ground or be moved by ventilation and ignited by heat, spark, flame or other sources.

SECTION V PHYSIOLOGICAL EFFECTS

EFFECTS OF EXPOSURE

Eyes: May cause irritation
 Skin: May cause irritation and contact dermatitis in sensitive persons
 Inhalation: May cause nasal/respiratory irritation; dizziness and nausea
 Swallowing: Small amounts: May cause irritation, nausea, vomiting or diarrhea
 Large amounts: Reacts with stomach acid to generate methanol, a poison capable of causing blindness, liver or kidney damage or death.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush with large amounts of water; get medical attention
 Skin: Wash thoroughly with soap and water
 Inhalation: Remove to fresh air; give oxygen if trouble breathing; get medical attention
 Swallowing: If conscious, give two glasses of water and induce vomiting; get medical attention. Do not induce vomiting in an unconscious person.
 If a large amount is swallowed, get medical attention immediately. If medical attention is delayed, give three to four ounces of hard liquor, such as whiskey.

SECTION VI REACTIVITY DATA

MATERIAL IS	CONDITIONS TO AVOID	MATERIALS TO AVOID	DECOMPOSITION PRODUCTS
Stable	None	Strong mineral acids Strong oxidizing agents	Carbon dioxide/monoxide Hydrogen fluoride

HAZARDOUS POLYMERIZATION

MAY OCCUR	WILL NOT OCCUR
<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONDITIONS TO AVOID

Avoid open flame or sparks

SECTION VII SPILL OR LEAK PROCEDURES

SMALL SPILL

Absorb on paper, floor absorbent or similar material; dispose of absorbent properly. Use ethyl alcohol to facilitate clean-up with precautions appropriate to ethyl alcohol.

LARGE SPILL

Eliminate ignition sources (flame, sparks, etc.); exclude persons without protective gear (Sec. VIII below) from spill area; pump liquid to steel or polyethylene drums; residue may be absorbed by clay, sand, floor absorbent or similar materials and shoveled into drums. Use isopropyl alcohol to facilitate clean-up with precautions appropriate to solvent.

WASTE DISPOSAL METHOD

Dispose of in accordance with all Federal, State and Local laws and regulations.

SECTION VIII PROTECTIVE EQUIPMENT

Ventilation: General mechanical ventilation.
 Respiratory: Generally none. If prolonged exposure to high concentration of vapors is expected, use approved dust/mist mask, with activated carbon filtering.
 For Eyes: Approved chemical splash goggles.
 For Skin: For prolonged skin contact, wear natural gloves, boots and outerwear.

SECTION IX SPECIAL PRECAUTIONS

Container may contain liquid or vapor residue. Obey all precautions until container disposed of. Do not reuse container. Dispose of container in accordance with Federal, State and Local regulations.

SECTION X REGULATORY INFORMATION

Concentrations shown are maximum or ceiling levels (weight % or ppm) to be used for calculations for regulations. Trade Secrets are indicated by "TS".

FEDERAL EPA Regulations

CERCLA: Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4.

Components present in this product at a level which would require under the statute are: None

SARA III: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which would require under the statute are: None

SARA III: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material.

Components present in this product at a level which would require under the statute are: None

TSCA: The ingredients of this product are on the Toxic Substance Control Act (TSCA) inventory.

EPA Hazard Categories: Immediate Health Hazard; Delayed Health Hazard

STATE REGULATIONS

California Proposition 65: This product contains Toluene CAS# 108-88-3 (<100 ppm) which the State of California has found to cause cancer, birth defects or other reproductive harm.

California SCAQMD Rule 443.1 VOC's: Volatile Organic Components (VOC's):

This product contains 930 grams/liter VOC (vapor pressure =>0.5 mm Hg @104° C)

This product contains <150 grams/liter VOC (Non-Thin Film under EPA Rule 24).

Massachusetts Right-to-Know: Substance List (MSL) hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components in this product at a level which would require reporting under the statute are: None

New Jersey Right-to-Know: Labeling requirement under New Jersey Worker and Community Right To Know Act: Component - gamma-Glycidoxypropyltrimethoxysilane CAS# 2530-83-8.

Pennsylvania Right-to-Know: Hazardous Substance List Hazardous Substances and Extraordinarily Hazardous Substances on the List must be identified when present in products. Components in this product at a level which would require reporting under the statute are: None

CHANGES SINCE LAST MSDS: Section X: California Proposition 65 added CAS No.