

Material Safety Data Sheet

MSDS No.: _____ Preparation/Revision Date: 04/03/08

SECTION I: PRODUCT AND COMPANY IDENTIFICATION INFORMATION

MANUFACTURER'S NAME Roland DGA Corporation	INFORMATION/EMERGENCY TELEPHONE NUMBERS (949)727-2100
ADDRESS (Number, Street, City, and ZIP Code) 15363 Barranca Pkwy, Irvine, CA 92618	
PRODUCT NAME Glossy Calendered Vinyl	
CHEMICAL NAME Acrylic Adhesive Coated Polyvinyl Chloride Film	COMMON NAME Pressure Sensitive PVC Film or Sheet
CHEMICAL FAMILY Vinyl Polymer/Acrylic Adhesive/Paper Liner	FORMULA Trade Secret Mixture

SECTION II: HAZARDOUS INGREDIENTS

CHEMICAL AND COMMON NAME	Wt-%	APPLICABLE EXPOSURE LIMITS		
		PEL-OSHA	TLV-ACGIH	OTHER
No hazardous ingredients are known to be in this product as supplied.	N/A	N/A	N/A	N/A

OTHER COMPONENTS

CHEMICAL AND COMMON NAME	Wt-%	REFERENCE SOURCE		
		OSHA	IARC	NTP
Polyvinyl Chloride Film	39-46	N/A	N/A	N/A
Acrylic Copolymer Pressure Sensitive Adhesive	9-11	N/A	N/A	N/A
Silicone Coated Paper Release Liner	45-50	N/A	N/A	N/A

CARCINOGENIC INGREDIENTS

CHEMICAL AND COMMON NAME	Wt-%	REFERENCE SOURCE		
		OSHA	IARC	NTP
No carcinogenic ingredients are known to be in this product as supplied.	N/A	N/A	N/A	N/A

SECTION III: PHYSICAL AND CHEMICAL CHARACTERISTICS

<u>Boiling Point</u> : Not Applicable

Imagine.

<u>Vapor Pressure (mm Hg)</u> : Not Applicable
<u>Vapor Density (Air = 1)</u> : Not Applicable
<u>Solubility in Water</u> : Nil
<u>Specific Gravity (H₂O = 1)</u> : 1.03 g/cm ³
<u>Freezing/Melting Point</u> : Not Applicable
<u>Evaporation Rate (nBuAc = 1)</u> : Not Applicable
<u>Appearance</u> : Opaque, GLOSSY WHITE
<u>Physical State</u> : Solid at room temperature
<u>Odor</u> : Almost imperceptible; very slightly sweet.
<u>Percent Volatile</u> : <2.9%
<u>Bulk Density</u> : 64.8 lbs./ft. ³

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

<p>FLAMMABLE PROPERTIES: <u>Flash point (Method Used)</u>: No Data. <u>Flammable Limits (LEL/UEL)</u>: No Data. <u>OSHA Flammability class</u>: No Data. <u>Auto ignition temperature</u>: No Data.</p>
<p><u>Unusual fire and explosion hazards</u>: The adhesive and Release Liner will burn readily when exposed to open flame sources, releasing small amounts of Acetaldehyde, Acetic Acid, Acrolein, various Aliphatic and Aromatic Hydrocarbons, Carbon Monoxide, Carbon Dioxide, and smoke. PVC will not continue to burn after ignition without an external source of flame. When forced to burn, PVC film will evolve many of the above products plus small amounts of Benzene, Hydrogen Chloride Gas and Phthalate Esters. This product is not believed to pose a significant explosion hazard.</p>
<p><u>Extinguishing media</u>: Water, Foam, CO₂.</p>
<p><u>Fire fighting instructions</u>: Use NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing.</p>

SECTION V: REACTIVITY DATA

<p><u>Chemical Stability</u>: Stable under normal conditions of storage, handling, and use.</p>
<p><u>Conditions to Avoid</u>: Fire or extreme heat.</p>
<p><u>Incompatibility (Materials to avoid)</u>: Avoid contact with strong oxidizing agents.</p>
<p><u>Hazardous Decomposition Products</u>: Acetaldehyde, Acetic Acid, Acrolein, various Aliphatic and Aromatic Hydrocarbons (including Benzene); Carbon Dioxide, Carbon Monoxide, and Hydrogen Chloride gas may evolve</p>

during a fire.

Hazardous Polymerization: Will not occur.

SECTION VI: HEALTH HAZARD DATA

ROUTES OF ENTRY:

Eye: Prolonged direct eye contact may cause minor, temporary irritation. No long-term or irreversible adverse health effects are known.

Skin: Prolonged direct skin contact may cause minor, temporary irritation and/or dermatitis. No long-term or irreversible adverse health effects are known.

Inhalation: Material cannot be inhaled under normal conditions of use. No long-term or irreversible adverse health effects are known.

Ingestion: Material is not likely to be ingested under normal conditions of use. Minor throat irritation may occur due to mechanical abrasion if material is swallowed. No long-term or irreversible adverse health effects are known.

Health Hazards (Acute and Chronic): None Known.

Carcinogenicity: No carcinogens are known to be present in this material.

NTP? No Data.

IARC Monographs? No.

OSHA Regulated? No.

Signs and Symptoms of Exposure: Effects of overexposure may include temporary, minor irritation of eyes or skin. No long-term or irreversible adverse health effects are known.

Medical Conditions Generally Aggravated by Exposure: None known.

Emergency and First Aid Procedures:

Eye: Carefully remove visible material from victim's eyes. Flush eyes with clean water. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention.

Skin: Remove visible material from skin. Wash affected areas with mild soap and water. If irritation or redness develops, seek medical attention.

Inhalation: Not applicable. Material cannot be inhaled under normal conditions of use.

Ingestion: Do not induce vomiting (material may mechanically abrade throat and mouth if ejected with vomitus). If gastrointestinal distress develops, seek medical attention.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Material is a solid, typically in roll or sheet form. Pick up loose sheets to eliminate falling/tripping hazard and place in appropriate waste container.

Waste Disposal Method: Dispose of waste material in accordance with applicable local, state, and Federal regulations. Landfilling or incineration are acceptable in most localities, but either method should be confirmed by the user prior to disposal of material.

Precautions to Be Taken in Handling and Storage: When handling, wear gloves and protective eyewear with side shields, in accordance with accepted good manufacturing practices. Store Clear-Ad sheets and rolls in a cool (75°F ± 10°F), dry (40 ± 10% Relative Humidity) space, to ensure maximum shelf life.

Other Precautions: Loss of desirable performance characteristics may occur when Vinyl is exposed to intense light and heat sources for prolonged periods. When possible, keep in original, sealed packaging until ready to use.

Avoid contact with organic solvents. Most organic solvents will permanently mar or dissolve PVC film, rendering it useless for its intended applications.

SECTION VIII: CONTROL MEASURES

Respiratory Protection (Specify Type): None needed. Material cannot be inhaled under normal conditions of use.

VENTILATION:

Local Exhaust: Not required.

Mechanical (General): Recommended.

Special: None needed.

Other: None needed.

Protective Gloves: Cotton or synthetic fiber.

Eye Protection: Goggles with side shields should be used in accordance with generally accepted safe workplace practices.

Other Protective Clothing or Equipment: None needed.

Work/Hygienic Practices: Wash hands thoroughly after handling and before eating or using restroom facilities, in accordance with generally accepted safe workplace practices.

SECTION IX: TRANSPORT INFORMATION

DOT Shipping Name: Not listed.

DOT Label: Not applicable.

DOT Hazard Class: Not regulated.

UN/NA Number: Not applicable.

Hazard Label(s): Not applicable.

Hazard Placard(s): Not applicable.

Emergency Response Guide (ERG) Number: Not applicable.

SECTION X: REGULATORY INFORMATION

Federal Regulatory Information:

OSHA Hazard Communication Standard (29CFR1910.1200) status: Not listed; non-hazardous.

EPA Clean Air Act status: Not listed.

EPA Clean Water Act status: Not listed

SARA Reporting status:

Section 302 (Reportable Quantity of Extremely Hazardous Substance and Threshold Planning Quantity of Extremely Hazardous Substance): None.

Section 313 (40CFR372.65C, to be used on Toxic Release Inventory Form): None.

Section 311/312 (Hazard category for SARA Section 311/312 reporting: H1=acute health hazard; H2=chronic health hazard; 3=fire hazard; P4=sudden release of pressure hazard; P5=reactive hazard): None.

RCRA Status: Material is believed to be non-hazardous as supplied. It is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40CFR261.20-24).

Other Regulatory Information: No components of this product are known to be specifically listed by individual states. Other product-specific health and safety data in other sections of this MSDS may be applicable for state requirements. For details on applicable regulatory requirements, the customer should contact the appropriate agency in his/her own state.

SECTION XI: DOCUMENTARY INFORMATION

Issue Date: 04/03/08

Previous Issue Date: 02/06/08

Product Code: ESM-GCVP

Previous Product Code: N/A

SECTION XII: DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS STORAGE, HANDLING, USE, OR DISPOSAL. This information and product are furnished on the condition that the person receiving them shall make his/her own determination as to the suitability of the product for his particular purpose and on the condition that he/she assumes the risk of the use thereof. Roland DGA Corporation assumes no legal responsibility for loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.