



LuminEssence™
Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

ClearPath Signage Systems

2040 Industrial Drive
Findlay, OH 45840
USA

EMERGENCY PHONE NUMBERS:

Medical: 911
Poison Control: 800-589-3897

Telephone Numbers

ClearPath Customer Service
International

Phone Number

1-866-953-CPSS (2777)
419-425-8974

Available Hours

8:00am-5:00pm EST

Product Name: LuminEssence™

Chemical Name: Polyvinylchloride (PVC)

EPA Reg Number:

Product Use: Signage, Other

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>CAS Registry Number</u>	<u>Typical Wt. %</u>	<u>OSHA</u>
Polyvinylchloride (PVC)			
Dioctyl Phthalate (DOP)			
Specific Additives			
Pigments when necessary			

The substance(s) marked with a "Y" in the OSHA column are identified as hazardous chemicals according to the criteria of the OSHA Hazardous Communication Standard (29 CFR 1910.1200).

While this material is not classified as hazardous under Federal OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product. The components of this product are all on the TSCA Inventory list.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION! MELT PROCESSING RELEASES VAPORS WHICH MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION

POTENTIAL HEALTH EFFECTS:

Skin contact and inhalation of dust are expected to be the primary routes of occupational exposure to this material. Due to its chemical and physical properties, this material does not require special handling other than the good industrial hygiene and safety practices employed with any industrial material of this type.

HAZARDOUS COMPONENTS: None.



4. FIRST AID MEASURES

IF SWALLOWED, contact a doctor.

IN CASE OF ACCIDENTAL CUTS, to the skin or eyes, wash well with water and, if necessary, see a doctor.

IF IN EYES, immediately flush with plenty of water. Get medical attention if irritation persists.

IN CASE OF CONTACT, flush the area with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops and persists.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES:

STABILITY	Yes
POLYMER HAZARD	No
PRECAUTIONS	Avoid contact with Ketones and Esters.
FLAMMABILITY	Hardly Flammable material, it DOES NOT continue to burn after removal of the flame. Self Extinguishing.

EXTINGUISHING MEDIA: Use water spray, carbon dioxide (CO₂), dry chemical.

FIRE FIGHTING INSTRUCTIONS: Adopt usual fire fighting procedures. Use self-contained air supply for enclosed fires.

FIRE HAZARDS: In case fire develops acrid smoke which may contain CO, CO₂, Hydrocarbons and Hydrochloric Acid.

IN CASE OF FIRE RESPIRATORS ARE OBLIGATORY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK: Sweep up or use an exhaust system and leave in authorized dumps or burn in official incinerators according to local laws on health and environmental protection.

ATTENTION! The above information is given in good faith and based on present knowledge.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY INFORMATION: Avoid inhaling fumes and vapour during working of material.

PROTECTIVE GLOVES: Necessary during heat treatment of material.

OTHER PROTECTIVE MEASURES: Normally not Necessary.

VENTILATION: Good ventilation is necessary in the work area.



9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Solid
APPEARANCE:	Sheets
SPECIFIC GRAVITY:	1.27 ÷ 1.29 g/cm ² (soft) 1.33 ÷ 1.35 g/cm ² (rigid)
SPECIFIC GRAVITY (H ₂ O=1):	1.30-1.50
SOLUBILITY IN WATER:	Insoluble
VAPOR PRESSURE:	N/A
VAPOR DENSITY:	N/A
BOILING POINT:	SOLID N/A
MELTING POINT:	N/A
EVAPORATION RATE: (BUTYL Acetate=1)	N/A
APPEARANCE AND ODOR:	Natural, Transparent, Translucent, Opaque ALL Colors. No Odor.

11. TOXICOLOGY INFORMATION

ACUTE TOXICITY – General Material Information

High levels of exposure to dust may cause eye irritation. Contact with molten or heated material may cause burns. Vapors/heated may cause irritation to the respiratory system.

CHRONIC TOXICITY – General Material Information

N/A

10. STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Sustained high heat.
HAZARDOUS DECOMPOSITION OR BYPRODUCT:	HGL, CO, CO ₂
HAZARDOUS POLYMERIZATION:	Will not occur.
MATERIALS TO AVOID:	None.

MOVEMENT & PARTITIONING: In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

DEGRADATION & PERSISTENCE: This water insoluble polymeric solid is expected to be inert in the environment. Surface photo degradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

ECOTOXICITY: Not expected to be acutely toxic, but chips may mechanically cause adverse effects if ingested by waterfowl or aquatic life.



13. DISPOSAL CONSIDERATIONS

Disposal must be in accordance with applicable governmental regulations.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): This product is not regulated by D.O.T. when shipped domestically by land.

CANADIAN TDG INFORMATION: This product is not regulated by TDG when shipped domestically by land.

15. REGULATORY INFORMATION

(Not meant to be all-inclusive – selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of:

New Jersey Pennsylvania

OSHA HAZARD COMMUNICATION STANDARD:

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is not a "Controlled Product" under WHMIS.



16. OTHER INFORMATION

NFPA HAZARD RATING (National Fire Protection Association):

Fire	1	0	Reactivity	FIRE: Materials that must be preheated before ignition can occur.
Health	0	0	Reactivity	HEALTH: Materials that under emergency conditions would offer no hazard beyond that of ordinary combustible materials.
	–			REACTIVITY: Materials that in themselves are normally stable, even under fire exposure conditions.
Special				

WARNING! THIS PRODUCT IS NOT TO BE USED IN LASER ENGRAVING EQUIPMENT.

REASON FOR ISSUE:

The information herein is given in good faith, but no warranty, express or implied, is made. Consult ClearPath Signage Systems for further information.