LAWSON SCREEN & DIGITAL PRODUCTS

MATERIAL SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY INFORMATION

Product Name: ChromaBlast® Digital Inks

Chemical Family: Aqueous Dispersion

Company: Lawson Screen & Digital Products, Inc.

5110Penrose St St.Louis, MO63115

U.S.A.

Telephone No.: (314)382-9300

Chemtrec® 24 HR. Emergency Telephone:

U.S./North America: (800) 424-9300 International: (703) 527-3887

SECTION 02 – COMPOSITION INFORMATION

Ingredient Name	CAS#	Concentration (%)	SARA 313
Proprietary Polymer Dispersion		< 15	NO
Proprietary Organic Colorants		< 10	NO
n-Methyl Pyrrolidinone	872-50-4	<2	NO
Triethylamine	121-44-8	< 0.5	NO
Water	7732-18-5	balance	NO

Additional specific chemical identity and information is withheld as a trade secret

SECTION 03 - HAZARDS IDENTIFICATION

HMIS RATING

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 1

NFPA RATING

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 1 For additional information on toxicity, please refer to Section 11.

SECTION 04 – FIRST AID MEASURES

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and sufficient amounts of water. If irritation develops, seek medical attention.

EYE EXPOSURE

Flush eyes with clean, lukewarm water (low pressure) for at least 15 minutes, occasionally lifting eyelids to ensure that the chemical is being flushed out of the eyes. Obtain medical attention.

After Contact With Skin: Wash affected areas thoroughly with soap and water.

SECTION 05 – FIRE FIGHTING MEASURES

Unusual fire and explosion hazards: Emits toxic fumes under fire conditions. This product

presents no unusual file or explosion hazards while sealed in a shipping container. During usage, if a dust cloud is generated, organic powders have the potential to be explosive with static spark or flame initiation.

Flash Point:

Auto-ignition Temperature:

Flammability:

Not Established

Not Established

Flammable Limits:

Upper Explosive Limit (UEL) (%): Not Established Lower Explosive Limit (LEL) (%): Not Established

Extinguishing Media:. Water spray, dry Chemical; Carbon Dioxide;

appropriate foam.

Special Fire fighting procedures: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During a fire, vapors and

other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat. Solvent vapors may be heavier than air. Stagnant air may cause vapors to build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors.

SECTION 06 – ACCIDENTAL RELEASE MEASURES

Spill or Leak procedures:

Evacuate nonessential personnel. Equip clean-up crew with appropriate protective equipment. Remove sources of ignition and ventilate area. If molten/liquid material is spilled, allow it to solidify. For both solidified material, pellets/pastilles sweep/scoop up and place in appropriately marked containers. Dike or impound spilled material and control further spillage if feasible. Once spilled material has been cleaned up, the spill area may be washed down and ventilated.

SECTION 07 – HANDLING AND STORAGE

HANDLING

Wear proper protective equipment. Avoid breathing fume, vapor or dust. Avoid contact with skin and eyes. Wash thoroughly after handling. For applications where handling of this product is above ambient temperature, including heat fixation, proper ventilation is required.

STORAGE

Away from excessive heat, in original or similar waterproof containers. Keep containers tightly closed when not in use.

Further info on storage conditions:

Store in a cool, dry, well-ventilated area. Keep container sealed when not in use.

SECTION 08 – EXPOSURE CONTROLS/PERSONAL PROTECTION

In accordance with good industrial practices, handle with care and avoid personal contact.

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Wear mask. Hand: Protective gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid

Appearance: Aqueous colored liquid

Property Value

Molecular Weight N/A Odorless pH: $7 \sim 9$ Boiling point: $\sim 100 \,^{\circ}\text{C}$ Melting/freezing point: $< 0 \,^{\circ}\text{C}$

Viscosity: $2 \sim 6 \text{ mPa.s } @ 25 \text{ }^{\circ}\text{C}$

Solubility in Water: Miscible

Specific Gravity: $1.02 \sim 1.05 \text{ g/cm}^3 \otimes 25 \text{ °C}$

Vapor pressure: N/A
Vapor Density: > 1 (air = 1)

SECTION 10 - STABILITY AND REACTIVITY

Stability:

This is stable material under normal conditions

Incompatibilities:

Avoid strong oxidizing agents, excessive heat.

Decomposition products:

By high heat and fire: carbon dioxide, carbon monoxide, and volatile organics.

Hazardous polymerization:

Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

This product is essentially non-reactive at room temperature and under normal working conditions, using good industrial hygiene practices.

ROUTE(S) OF ENTRY:

Inhalation: May be harmful if inhaled. Material may be irritating to

mucous membranes and upper respiratory tract.

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

CHRONIC INGESTION:

None found.

CARCINOGENICITY

NTP: Not listed

OSHA:

Not regulated.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: No information available on the adverse effects
Mobility: No information available on the adverse effects
Persistence and Degradability: No information available on the adverse effects
Bioaccumulative Potential: No information available on the adverse effects
Other Adverse Effects: No information available on the adverse effects

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal method: waste must be disposed of in accordance with federal, state, and local environmental control regulations. Incineration is the preferred method.

Empty container precautions: Empty containers must be handled with care due to product residue. Do not heat or cut empty containers with electric or gas torch.

SECTION 14 - TRANSPORT INFORMATION

DOT (Domestic surface)

Hazard Class or Division: non-regulated

IMO/IMDG code (Ocean)

Hazard Class Division Number: Non-regulated

IATA

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Non-Hazardous for Air Transportation: This material is considered to be non-hazardous for air transportation.

SECTION 15 – REGULATORY INFORMATION

UNITED STATES REGULATORY INFORMATION

Sara Title III:

Section 302 Extremely hazardous substances:

None
Section 311/312 Hazardous Categories:

None
Section 313 Toxic Chemicals:

None

SECTION 16 - OTHER INFORMATION

DISCLAIMER

For industrial use only. Not for drug, household or other uses.

WARRANTY

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