

MATERIAL SAFETY DATA SHEET

Emergency Telephone: 800-551-3087

Section 1: Chemical Product and Company Information

Identity:	SerInk Monastral Blue/Cyan	MSDS No.	CP- 429
Product ID:	480-0220	Issued:	11/15/2004
Synonyms & Common Names:	SCP65	Supersedes:	None
Uses:	SeriPrint 25	Date:	11/15/2004
Chemical Formula:	Mixture	Prepared by:	EH&S Department 770-496-9500
		Approved by:	Larry Choskey, Manager, CEH&S
		European Contact:	Walter Fricke, Manager, Safety & Environment, Lanier Worldwide, Inc. Im Taubental D-41468 Neuss, Germany +49-2131-387-177

Section 2: Composition / Information on Ingredients

	PERCENT	CAS No.	EXPOSURE LIMITS	SOURCE
Acrylate	25 – 50	Confidential	Not listed	N/a
Acrylic acid, propylenebis (oxypropylene) ester	10 – 25	42978-66-5	Not listed	N/a
Glycerolpropoxytriacylate	5 – 10	52408-84-1	Not listed	N/a
2,2' – (Methylimino) Diethanol	1 – 5	105-59-9	Not listed	N/a
Benzophenone	1 – 5	119-61-9	Not listed	N/a
Phosphine oxide, diphenyl (2,4,6-Tri-Methylbenzoyl)-	1 – 5	75980-60-8	Not listed	N/a
Pigment:				
C.I. Pigment red 122	< 1	980-26-7	Not listed	N/a
C.I. Pigment blue 15:3	5 – 10	147-14-8	Not listed	N/a

Section 3: Hazards Identification

HMIS Rating:
FLAMMABILITY = 2
REACTIVITY = 1
HEALTH = 1
SPECIAL = none

Primary entry routes: Skin

Acute eye effects: Irritating effect

Acute skin effects: Irritant to skin and mucous membranes.

Skin absorption: Repeated/prolonged skin contact with this material may result in absorption through the skin, causing systemic toxicity, symptoms may include convulsion tremors and ataxia.

Acute inhalation effects: Exposure to vapors is unlikely due to low vapor pressure, but inhalation of mist, aerosols or vapors may result in irritation of respiratory tract. Symptoms of irritation may include coughing, mucous production and shortness of breath.

Acute ingestion effects: Moderately toxic. May cause irritation of the mouth, throat, esophagus and stomach. There may be discomfort or pain in the mouth, throat, chest and abdomen, with nausea, vomiting, diarrhea, difficulty in swallowing, weakness, thirst, dizziness and drowsiness. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

Medical condition aggravated by long-term exposure: This material or its emissions may induce an allergic or sensitization reaction and thereby aggravate systemic disease.

Chronic effects: None known.

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Section 4: First Aid Measures

Inhalation:	Supply fresh air; consult doctor in case of complaints.	Eye Contact:	In case of contact, immediately flush eyes with water for 15 minutes. Get medical attention if needed.
Skin Contact:	Immediately wash with soap and water and rinse thoroughly. If skin irritation occurs consult a doctor.	Ingestion:	Give patient copious amounts of water to drink and provide fresh air. Do not induce vomiting. Get immediate medical attention.
Miscellaneous:	Never make an unconscious person vomit or drink fluids. Immediately remove any clothing soiled by the product	Notes to Physician:	There are not specific antidotes. Treatment of overexposure should be directed at the control of the symptoms and the clinical condition.

Section 5: Fire Fighting Measures

Flammable Properties:

COC Flash Point: N/a
Autoignition temperature: N/a

Flammable limits in air:

UEL: n/a LEL: n/a

Burning Rate:

Product is not self-igniting.

Flammability classification:

OSHA: IIIB

DOT: Not regulated

Extinguishing Media: CO₂, dry chemical, foam or water spray. Fight larger fires with water spray or alcohol resistant foam.

Class B fire extinguishers used in accordance with manufacturers instructions.

Unsuitable extinguishing agents: Water with full jet.

Fire fighting instructions: Do not enter fire area without proper protection. See section on decomposition products possible. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids, increasing risk of overpressure. Notify authorities if liquid enters sewer/public waters.

Special protective equipment for fire fighters: Wear self-contained breathing apparatus.

Miscellaneous: Cool endangered containers with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental Release Measures

Spill / leak Procedures: Spilled or released material may polymerize and release heat and gases. Extinguish all ignition sources. Blanket with fire fighting foam. Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, or sawdust). On water, contain, minimize dispersion and collect. Report per regulatory requirements.

Small Spills: Soak up small spills with inert solids.

Large spill containment: Impound and recover large land spill.

Miscellaneous: Keep product out of sewers and watercourses. Inform respective authorities if seepage into water course or sewage system occurs. Do not allow to enter sewers, surface or ground water. Keep unprotected personnel away. Ensure adequate ventilation.

Section 7: Handling and Storage

Handling Precautions: Store in a cool, dry place in tightly sealed containers. Keep away from heat and direct sunlight. Ensure good ventilation and extraction in the workplace.

Storage Requirements: Store between 5 - 30°C. Do not store together with oxidizing and acidic materials. Do not store together with alkalis (caustic solutions). Protect from heat and direct sunlight.

Miscellaneous: Leather gloves, aprons, belts or boots may be permeated by the materials, causing delayed and persistent irritation or chemical burns. Leather items should be discarded once contaminated.

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. On the basis of the data available to us, this product is not a dangerous substance. One should, however, observe the usual precautionary measures for dealing with chemicals.

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Section 8: Exposure Control and Personal Protection Information:

Respiratory Protection: Due to low vapor pressure, inhalation is not considered an occupationally significant route of exposure. However, a NIOSH approved respirator is recommended for operations resulting in excess organic vapors in the breathing zone.

Ventilation: Local exhaust is recommended when appropriate to control exposure to mist or aerosols. General exhaust is normally adequate to minimize exposure to vapors.

Protective Clothing / Equipment: Protective gloves: Rubber or neoprene to minimize contact.
Eye Protection: Safety goggles or full face shield whenever a splash hazard is present.

Miscellaneous: Wash hands before eating, using tobacco products or using the washroom. Tobacco and food products should be consumed in designated areas only. Avoid contact with eyes and skin. Impermeable aprons and boots, safety shower and eye bath should be made available.

Section 9: Physical and Chemical Properties

CHARACTERISTICS:

Appearance:	Monastral blue	Melting point:	Undetermined C
Form:	Liquid	Vapor pressure:	N/a
Odor:	Acrylate odor	Vapor density:	Heavier than air (Air=1)
Solubility in Water:	Not miscible or difficult to mix	Evaporation rate:	Slower than diethyl ether
Specific gravity:	N/a	Boiling point:	101 °C
Bulk Density:	1.113 g/cm ³ @ 20C	VOC	Negligible

Section 10: Stability and Reactivity

Stability: This product is potentially unstable and hazardous polymerization may occur if exposed to materials and conditions to be avoided. Stable until 50°C

Chemical incompatibilities: Strong acids, oxidizers, alkali metal hydroxides, polymerization initiators, peroxides, copper, copper alloys, carbon steel, iron, rust, primary and secondary amines.

Conditions to avoid: Extreme temperatures, direct sunlight, x-ray sources, electron beam sources, ultraviolet radiation sources, contamination with alkaline sources, trace metals and loss of polymerization inhibitor.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, mixed oxides of nitrogen, methyl methacrylate, and n-butyl methacrylate.

Section 11: Toxicological Information:

Eye effects: Irritating effect

Skin effects: Irritating to skin and mucous membranes

Acute oral effects: 42978-66-5 Acrylic acid, propylenebis (oxypropylene) ester --Oral LD 50(Rat): >5000mg/kg

Chronic effects: None known

Section 12: Environmental / Ecological Information

Miscellaneous: Do not allow product to reach ground water, water course or sewage system.

Section 13: Disposal Consideration

Contaminate product, soil, or water may be RCRA or OSHA hazardous waste due to potential for internal heat generation (see 40 CFR 261 and 29 CFR 1910). Landfill solids at permitted sites. Use registered transporters. Burn concentrated liquids in systems that use compatible fuel. Dilute with clean, low viscosity fuel. Avoid flameouts. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade. Avoid overloading or poisoning plant biomass. Assure effluent complies with applicable regulations.

Section 14: Transportation Information

Product Label: Serilnk Monastral Blue/Cyan

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Section 15: Regulatory Information

Miscellaneous information:

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop 65): This product does not contain chemicals known to the State of California to cause reproductive toxicity.

SARA Title III – Section 313: This product does not contain toxic chemicals subject to the annual reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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

Section 16: Miscellaneous Information

Judgment as to the suitability of information contained herein for user's purposes is the responsibility of the purchaser. Therefore, although reasonable care has been taken in the preparation of this information, Lanier Worldwide, Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to user's intended purposes or for consequences of its use. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards that exist.

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