

SAFETY DATA SHEET

This SDS complies with OSHA'S Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured by: Superior Printing Ink Co., Inc. Address: 10 York Avenue West Caldwell, NJ 07006 www.superiorink.com	Identity (Trade name as used on label) Product Class: Ultraviolet Trade Name: SUPER-CURE INKS Item Nos.: All Codes Product Use: Printing Ink
Date Prepared: March 19, 2018	Prepared by: Charmain Page-Walthrus
Information Calls: (201) 478-5600	DOT Emergency Response: (201) 478-5600

SECTION 2 – HAZARDS IDENTIFICATION

Hazcom 2012/GHS Classification: Skin Irritation 2, Eye Damage 1, Skin Sensitizer 1, Reproductive Toxicity 1B



Danger

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May damage fertility or the unborn child.

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mists/vapor/spray. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves, clothing, face and eye protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF exposed or concerned: Get medical advice/attention.

Storage/Disposal:

Store locked up. Dispose of contents and container in accordance with local, state and federal regulations.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Wt. %
Carbon Black	1333-86-4	10-20
Non hazardous pigments	Proprietary	1-25
Talc (hydrous magnesium silicate)	14807-96-6	1-3
Titanium Dioxide	13463-67-7	30-45
Barium Compound	5160-02-1 / 7585-41-3	10-28
Stabilizer	2842-44-6	1-2.0
Photoiniator	Proprietary	3-15
Acrylate Monomer	52408-84-1	10-20
Polyester Oligomer	Proprietary	30-50
Polyester Acrylate	Proprietary	5-15

The exact percentage is a trade secret.

SECTION 4 – FIRST AID MEASURES

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor	Ingestion: If swallowed, seek immediate medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
Skin Contact: Remove contaminated clothing; launder before re-use. Wash skin with soap and water; if irritated, seek medical attention.	Inhalation: Immediately remove to fresh air. Seek medical attention.
Most Important symptoms and effects, both acute and delayed: Causes eye irritation. May cause skin irritation on prolonged contact. Repeated skin contact may cause allergic skin reaction with rash. Contains an ingredient that may damage lungs by prolonged or repeated inhalation. May damage fertility or the unborn child.	Indication of any immediate medical attention and special treatment needed: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor

SECTION 5 – FIRE FIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media: Foam, dry chemical; use water spray to cool exposed surfaces. When water is used, fog nozzles are preferable.
Special Hazards Arising from the Chemical: Not classified as flammable or combustible but will burn under fire conditions. Dense smoke may be generated when burning. Fire media run-off can damage the environment. Dike and collect media used to fight fire.
Special Equipment and Precautions for Fire-Fighters: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: For small incidental spills and leaks, wear protective gloves and eye protection. Wash all contaminated clothing before reuse; discard contaminated leather shoes. For larger spill requiring emergency response, follow OSHA emergency response regulations and NIOSH recommendations.
Environmental Hazards: Report spills and releases as required to appropriate authorities. Toxic to aquatic life – avoid entry into storm sewers.
Methods and Material for Containment and Cleaning Up: Stop source of leak or spill. Isolate area of spill by diking, and/or add dry absorbent to prevent it from entering sewers, drains or waterways. Clean up and place in an appropriate container for disposal.

SECTION 7 – HANDLING/STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin or clothing. Avoid breathing mist or vapor. Wash hands thoroughly before eating, smoking or using toilet facilities. Do not eat, drink or smoke in work areas. Wash contaminated work clothing before reuse. Keep container closed when not in use. Use only with adequate ventilation.
Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated area.

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Component	Exposure Limit
Carbon Black	3.5 mg/m ³ TWA OSHA PEL / 3 mg/m ³ (inhalable) TWA ACGIH TLV
Non-hazardous pigment	None Established
Talc (hydrous magnesium silicate)	2 mg/m ³ TWA ACGIH OEL (respirable) 8 hr TWA / 20 mppcf PEL TWA OSHA
Barium Compound	None Established
Titanium Dioxide	15 mg/m ³ TWA OSHA PEL / 10 mg/m ³ TWA ACGIH TLV
Stabilizer	None Established
Photoinitiator	None Established
Acrylic Monomer	None Established
Polyester Oligomer	None Established
Polyester Acrylate	None Established

Appropriate Engineering Controls: Good, general ventilation should be sufficient for most operations. Ten or more room air changes per hour containing a minimum of 15 percent fresh air are recommended.

Individual Protection Measures:

Eye Protection: Safety glasses required.

Skin Protection: Impervious gloves required. Wear protective clothing if needed to avoid skin contact and contamination of personal clothing.

Respiratory Protection: If used under normal operating conditions, and with adequate ventilation, respiratory equipment is not required. Avoid excessive inhalation of ink mist.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colored Paste	BOILING RANGE (°F): Not determined
TYPE OF ODOR: Mild	pH: Not determined
ODOR THRESHOLD: Not determined	MELTING/FREEZING POINT (°F): Not determined
RELATIVE DENSITY vs. water: Heavier	EVAPORATION RATE vs. Butyl Acetate: Slower
VAPOR DENSITY vs. air: Heavier	SOLUBILITY IN WATER: None
VAPOR PRESSURE: Not determined	VISCOSITY: Not determined
FLASH POINT (°F): Not determined	PARTITION COEFFICIENT: Not determined
FLAMMABLE LIMITS: Not determined	FLAMMABILITY (solid, gas): Not applicable
AUTO-IGNITION TEMPERATURE: Not determined	DECOMPOSITION TEMPERATURE: Not determined
SPECIFIC GRAVITY: Not determined	VOLATILES (LBS/GAL): 0
DENSITY (LBS/GAL): Not determined	% VOLATILES, Wt.: 0

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known

Conditions to Avoid: Avoid excessive heat and open flames.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition will generate smoke, fumes, carbon monoxide and carbon dioxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:

Eye: Causes serious eye damage.

Skin: May cause irritation and drying of the skin. Repeated skin contact may cause allergic skin reaction with rash.

Inhalation: Mist or vapor can irritate the throat and lungs.

Ingestion: If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Carcinogen Status: Carbon Black and titanium dioxide are listed by IARC as a group 2B carcinogens (possible human carcinogen). IARC: In 2006, IARC concluded that inhaled talc not containing asbestos or asbestiform fibers is not classifiable as a human carcinogen (Group 3). IARC ruled that there is limited evidence that the use of talc-based body powder for perineal dusting is a possible risk factor for ovarian cancer (Group 2B). Carbon black, titanium dioxide and talc are bound in the ink matrix and no exposure to free carbon black, titanium dioxide or talc will occur in the normal use of this product. None of the other components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Directive

May damage fertility or the unborn child.

Acute Toxicity Values: These products are not acutely toxic.
LD50 oral rat 3,666 mg/kg; LC50 inhalation not determined

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life. Acute, Chronic

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: None known

SECTION 13 – DISPOSAL CONSIDERATIONS

Hazardous Waste Characterization: None

Recommendation: Dispose of materials associated with cleaning up spills and/or leaks according to federal, state and local regulations for ignitable waste. Consult appropriate federal, state and local regulations to determine proper characterization of used product contaminated with other printing process products.

SECTION 14 – TRANSPORT INFORMATION

Ground Shipping (US DOT 49 CFR): Not Regulated.

Air (ICAO/IATA) Shipping: Not Regulated.

International Maritime Organization (IMDG) Shipping: Not Regulated.

SECTION 15 – REGULATORY INFORMATION

SARA Title III, Sections 311 and 312 Hazard Classifications: Acute Health, Chronic Health.

SARA Title III, Sections 313: This product contains the following chemicals is subject to reporting requirements of Section 313 (Toxic Release Inventory) of the Emergency Planning and Community Right-to-Know Act of 1996: Barium Compounds 25-30% (warm red, YS 2B inks only)

SARA Title III, Sections 302 and 304 (Extremely Hazardous Substances) – This product is not subject to reporting requirements of Sections 302 and 304 of the Emergency Planning and Community Right-to-Know Act of 1996.

Clean Air Act (CAA) Hazardous Air Contaminants Rule (Hazardous Air Pollutant - HAP) – None known.

California Proposition 65: – This product contains substances known to the state of California to cause cancer and/or reproductive toxicity.

TSCA Inventory: All of this product's components are listed.

SECTION 16 – OTHER INFORMATION

Date Prepared: March 19, 2018

FOR INDUSTRIAL USE ONLY

USE ONLY AS DIRECTED

DO NOT TAKE INTERNALLY

While Superior Printing Ink Company, Inc. believes the data set forth herein are accurate as of the date hereof, Superior Printing Ink Company, Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.