Material Safety Data Sheet # 203.21
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Supersedes:

I. PRODUCT IDENTIFICATION

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033 Emergency phone: (323) 264-2200	**HMIS HAZARD IDENTIFICATION** Health 2 Flammability 1 Reactivity 2 Personal Protection D
Product Class: UV Overprint Coating	**Manufacturer's code:** UVS-4751P
Trade Name: BZP-Free Gloss H-UV Coating	

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Proprietary Mixture	NJTSRN-6000-223	100.00		

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Not expected to be a hazard due to low volatility under standard conditions. Inhalation of mist or vapor may cause irritation of respiratory tract.
Skin Contact: No specific information available. Contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formations (burns). Since irritation may not occur immediately, contact can go unnoticed. Contains materials that might be slightly toxic.
Eye Contact: Moderate irritant. Can cause burning sensation, tearing, swelling and redness. Injury may persist for several days.
Ingestion: May irritate the mouth, throat and gastrointestinal tract.

IV. FIRST AID PROCEDURES

Emergency & First Aid Procedures
Eyes: Flush with plenty of water for at least 15 minutes and seek medical attention.
Skin: Remove contaminated clothing and wash contact area with soap and water for 15 minutes. Pay particular attention to hair, nose, ears and other areas not easily cleaned.
Inhalation: No special instructions
Ingestion: If appreciable quantities have been swallowed, seek medical attention. DO NOT INDUCE VOMITING! Call physician at once.

V. FIRE AND EXPLOSION DATA

Flash Point °F (PMCC): > 200		**Auto-ignition Temperature °F:** Not Applicable
Flammable Limits in Air (% Volume): Not Applicable	**Lower Limit:** Not Applicable	**Upper Limit:** Not Applicable
Extinguishing Media: Use dry chemical, foam or carbon dioxide **Special Fire Fighting Procedures:** Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas.		

Unusual Fire & Explosion Hazard: High temperatures and fire conditions may cause rapid and uncontrolled polymerization, which can result in explosions and the violet rupture of storage vessels. Avoid the use of a stream of water to control fires since frothing can occur.

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Remove all ignition sources, as spilled material may polymerize. Move leaking containers to ventilated area. Stop discharge, if it can be performed safely, and contain material. Place in a suitable container for disposal. DO NOT FLUSH TO SEWER!

VII. HANDLING AND STORAGE

Handling and Storage: Store in sealed containers away from heat, open flames and oxidizing materials. Fire extinguishers must be kept readily available, and personnel should be trained in their proper use. To ensure optimal product stability, store at 40°F – 80°F. Prevent from freezing.

Other Precautions: Containers should be stored away from heat. To prevent polymerization, containers opened previously SHOULD NOT BE BLANKETED with nitrogen or other inert gas.
Empty Container Precautions: Containers can be hazardous when empty because they can retain product residues. Therefore, DO NOT REUSE containers for food, clothing or products for human or animal consumption or where skin contact may occur. DO NOT TRANSFER to unmarked containers. Follow DOT regulations during transport.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment
Ventilation Requirements: Adequate ventilation must be provided to keep mist concentration below PEL.
Respirator: Good engineering controls, such as local exhaust and good room ventilation, are normally sufficient to control odors. NIOSH/MSHA-approved respiratory protection equipment should be used if this material is handled at elevated temperatures or under mist-forming or spraying conditions where engineering controls are not adequate to prevent workplace exposure.
Skin: Impervious gloves (neoprene). Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Remove gloves immediately after use. Wash hands with soap and water. A combination barrier cream, applied before exposure, and gloves are recommended. DO NOT APPLY CREAM AFTER EXPOSURE!
Eye: Plastic face shield, safety glasses with side shields or goggles must be worn.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: > 300°	**Vapor Density (Air = 1): <** 1
Relative Density (H_2O = 1): 1.11	**Vapor Pressure (mm Hg @ 68°F):** No data
Material Density Lbs./Gal: 9.26	**Solubility in Water:** Insoluble
% Volatile Organic Compounds (VOC) by Weight: <1, ASTM Method D5403-93 (after cured)	**% Solids by Weight:** 99
VOC: lbs./gal: < .09 **g/L: <** 11.1	**Appearance/Odor:** Colored paste

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	**Conditions to avoid:** Storage > 140°F, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.
Hazardous Polymerization: High temperatures (> 140°F) and oxygen-deficient atmosphere reduce inhibitor effectiveness and may cause polymerization, thereby raising the temperature and pressure, possibly rupturing the container. DO NOT BLANKET OR MIX WITH NITROGEN or other inert gases as this renders the inhibitor ineffective.	**Materials to avoid:** Polymerization initiators, including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust, nickel, cobalt, strong bases, ultraviolet light and/or sunlight.
Hazardous Decomposition Products: No data	

XI. TOXICOLOGICAL INFORMATION

There is no data available for this product.

XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time.

XIII. DISPOSAL INFORMATION

Waste Disposal Method: CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water. If discarded in its original unused form, this product DOES NOT exhibit the characteristics of a RCRA hazardous waste as defined under 40CFR261. Waste materials should be dumped or buried in an approved landfill or incinerated in a suitable combustion chamber. Disposal must comply with all Federal, State and Local regulations. Of the methods of disposal currently available, it is recommended that one of the following alternatives be selected according to the following order of preference, based upon environmental acceptability:

1. Recycle or rework if at all feasible.
2. Incinerate at an authorized facility.
3. Treat at an acceptable waste treatment facility.

If this product has fully polymerized into a solid, it can be considered to be inert and therefore can be disposed as non-hazardous waste.

XIV. TRANSPORT INFORMATION

DOT: Not Regulated

XV. REGULATORY INFORMATION

SARA Title III:

Section 302 – Extremely Hazardous Substances: Any ingredient that is an "Extremely Hazardous Substance" will be indicated in "Section 2 – Composition/Information on Ingredients" of this MSDS.

Section 311/312 – Hazard Categories (40CFR370): Pursuant to Section 311/312 of SARA Title III, the physical and health hazard categories for this product are identified below:

Fire Hazard: NO
Sudden Release of Pressure Hazard: NO
Reactivity Hazard: YES
Immediate (Acute) Health Hazard: YES
Delayed (Chronic) Health Hazard: YES

Section 313 – Toxic Chemicals (40CFR372): This product does not contain any substance listed in Section 313 at or above the de-minimus level.

TSCA Section 8(b) Inventory Status:

All component(s) of this product are either exempt or listed on the TSCA Inventory.

U.S. State Regulations

California Proposition 65:

This product does not intentionally contain any chemicals known by the state of California to cause cancer and/or reproductive harm. Moreover, Gans Ink and Supply Co., Inc. does not routinely analyze its products for impurities which may be such chemicals.

XVI. OTHER INFORMATION

The information herein is presented in good faith, based on the data available to us and is believed to be correct as of the date hereof. However, Gans Ink and Supply Co., Inc. makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Gans Ink and Supply Co., Inc. assumes no responsibility for any damages of any nature directly or indirectly resulting

from the use of or reliance upon the information contained herein. Users must make their own determination as to the suitability of the product for their purpose prior to use. In accordance with good practices of personal cleanliness and hygiene, handle with due care and avoid unnecessary contact with this product.