

Material Safety Data Sheet # 215
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Date of preparation: 6/24/2011
MSDS #: 215

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								
	<table border="1"> <tr><td>Health</td><td>2</td></tr> <tr><td>Flammability</td><td>1</td></tr> <tr><td>Reactivity</td><td>2</td></tr> <tr><td>Personal Protection</td><td>B</td></tr> </table>	Health	2	Flammability	1	Reactivity	2	Personal Protection	B
Health	2								
Flammability	1								
Reactivity	2								
Personal Protection	B								
Product Class: UV Coating	Manufacturer's code: S-1326								
Trade Name: UV Gloss Effect Heat XFER Coating									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Proprietary Mixture	NJTSRN-6000-1446	100	Not Established	

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: Avoid skin contact. Contains materials that might be slightly toxic. Contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formations (burns). Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. This condition may make the skin more susceptible to other irritants, sensitizers, and disease. Individuals with pre-existing skin disorders can be at greater risk. Since irritation may not occur immediately, contact can go unnoticed. Those known to be sensitized to acrylates should avoid all exposure to this product.
Eye Contact: Avoid eye contact. Moderate irritant. Can cause burning sensation, tearing, swelling and redness. Injury may persist for several days. Individuals with pre-existing eye disorders can be at greater risk. Those known to be sensitized to acrylates should avoid all exposure to this product.
Ingestion: Do not ingest. Contains materials that might be slightly toxic. May irritate the mouth, throat and gastrointestinal tract. Severe oral intoxication will lead to intense burning of the throat and may result in drowsiness, dullness, numbness, and headache followed by dizziness, weakness, and nausea. Loss of consciousness and convulsions followed by death may result. See <i>Notes to Physician</i> section below.

IV. FIRST AID PROCEDURES

Emergency & First Aid Procedures
Eyes: Immediately flush eyes with large amounts of water and continue flushing for 15 minutes seek medical attention.
Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water for 15 minutes. Pay particular attention to hair, nose ears and other areas not easily cleaned. If redness or irritation occurs, seek medical attention.
Inhalation: In case of exposure to high concentration of vapor or mist, remove victim from exposure to fresh air. If breathing has stopped or is irregular, administer artificial respiration and supply oxygen if it is available. If victim is unconscious, remove to fresh air and seek medical attention.
Ingestion: Do not induce vomiting. If appreciable quantities have been swallowed, seek immediate medical

attention. Never give anything by mouth to an unconscious person.

Notes to Physician: Aspiration may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage, and may be fatal. Signs of lung involvement include increased respiration rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking, and gagging are often noted at the time of aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration.

V. FIRE AND EXPLOSION DATA

Flash Point °F: > 200 F (PMCC)	Auto-ignition Temperature °F: Not Applicable	
Flammable Limits in Air (% Volume)	Lower Limit: Not Applicable	Upper Limit: Not Applicable
Extinguishing Media: Use foam, CO ₂ , or dry chemical extinguishing media.		
Special Fire Fighting Procedures: Remove all ignition sources. Wear self contained breathing apparatus and complete protective equipment when entering confined areas. Water may be ineffective, but can be used to cool containers exposed to heat or flame.		
Unusual Fire & Explosion Hazard: High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent 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 a ventilated area. Stop discharge if it can be performed safely and contain material. Absorb with an inert material such as vermiculite, clay, sand etc. and place in a suitable container for disposal. DO NOT FLUSH TO SEWER.

VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool, well-ventilated area. Store in sealed containers away from heat, open flame, and oxidizing materials. Fire extinguishers must be kept readily available, and personnel should be trained in their proper use. To prevent polymerization, containers opened previously should NOT be blanketed with nitrogen or other inert gas. To ensure optimal product stability, store between 40F and 80 F. Prevent from freezing.

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. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor.

Other Precautions: For industrial use only. Do not ingest. Consumption of food and beverages should be avoided in work areas. Always wash hands and face with soap and water before eating, drinking, and smoking.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Requirements: Adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specific exposure or flammable limits.

Personal Protective Equipment

Respirator: When exposed to aerosols or vapors, use full face organic vapor cartridge respirator with particulate pre-filter. In emergency situations, or when used in a confined space, use self-contained breathing apparatus or other air-supplied full face respirator. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.

Skin: Impervious gloves (neoprene) are recommended. A combination barrier cream, applied before exposure and gloves are recommended. DO NOT APPLY CREAM AFTER EXPOSURE.

Eye: Eye protection is recommended. Wear plastic face shield or splash-proof safety glasses or goggles.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: > 300 F	Vapor Density (Air = 1): > 1
Relative Density (H₂O = 1): 1.10	Vapor Pressure (mm Hg @ 70°F): No Data
Material Density Lbs./Gal: 9.16	Liquid Density: Heavier than Water

% Volatile Organic Compounds (VOC) by Weight: < 1 (Excluding water) ASTM Method D5403-93	Solubility in Water: Insoluble Evaporation Rate: Slower than Butyl Acetate
VOC: lbs/gal: < 0.092 g/L: < 11.00	Appearance/Odor: Slight Acrylic Viscous Liquid

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	Conditions to avoid: Excessive heat, storage > 140 F, exposure to light. Loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.
Hazardous Polymerization: High temperatures (> 140F) 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 lights and / or sunlight.
Hazardous Decomposition Products: CO ₂ , CO, and other oxides may be generated as products of combustion.	

XI. TOXICOLOGICAL INFORMATION

CARCINOGEN: This product has not been identified as a carcinogen by OSHA or the National Toxicology Program (NTP), or the International Agency for Research Cancer (IARC).	
Mutagen:	No Data
Teratogen:	No Data
Reproductive Toxicity:	No Data

XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time. As with all chemicals and products Do Not allow to enter waterways, sewers or drains.

XIII. DISPOSAL INFORMATION

Waste Disposal Method: If discarded in its original unused form, this product DOES NOT exhibit the characteristics of a RCRA hazardous waste as defined under 40CFR261. If this product has fully polymerized into a solid, it can be considered to be inert and therefore can be disposed of as non-hazardous waste. Waste materials should be dumped or buried in an approved landfill or incinerated in a suitable combustion chamber at a licensed facility in accordance with local, state, and federal regulations. Of the methods of disposal currently available, it is recommended that an alternative 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.

XIV. TRANSPORT INFORMATION

Flammability Classification:	Not applicable
OSHA:	Class III B
DOT Shipping Name:	Not Regulated
DOT Label:	Not Applicable
DOT Identification Number:	Not Applicable
IMDG / IMO:	Not Regulated
IATA/ ICAO:	Not Regulated

XV. REGULATORY INFORMATION

SARA Title III Section 313:

Section 313 – Toxic chemicals: This product Does Not contain any components subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right –to – know Act.

Section 302 – Extremely Hazardous Substances: This product Does Not contain any ingredient that is regulated under Section 302 (40 CFR 355) as an “Extremely Hazardous Substance”.

Section 311/312 – Hazard Categories: 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

TSCA Section 8(b) Inventory Status:

The chemical compounds of this product are contained on the Section 8 (B) Chemical Substance Inventory List (40CFR710).

Canada

DSL (Canadian Domestic Substances List):

All components of this product are included / or listed on the DSL.

Ozone Depleting Substances (ODS):

This product neither contains, nor was manufactured with, a Class I or Class II ODS, as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpart A, Appendix A and B).

Hazardous Air Pollutants (HAP):

This product does not contain any HAP, as defined by the U.S. Clean Air Act Section 112 (40 CFR 61)

Coalition of Northeast Governors (CONEG) Legislation:

This product is in compliance with CONEG (i.e. total cadmium, hexavalent chromium, lead and mercury < 100 ppm)

U.S. State Regulations

California Proposition 65:

This product does not 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.