

Material Safety Data Sheet # 164
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Date of preparation: 9/1/93
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 MSDS#: 164

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>1</td></tr> <tr><td>Flammability</td><td>1</td></tr> <tr><td>Reactivity</td><td>0</td></tr> <tr><td>Personal Protection</td><td>B</td></tr> </table>	Health	1	Flammability	1	Reactivity	0	Personal Protection	B
Health	1								
Flammability	1								
Reactivity	0								
Personal Protection	B								
Product Class: Aqueous Coating	Manufacturer's code: S-1313, S-1314								
Trade Name: Krystal Kote									

II. COMPOSITION / INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Proprietary Mixture	NJTSRN-6000-1089	100 %	Not Established	
Proprietary Mixture	NJTSRN-6000-2282	100 %	Not Established	
Proprietary Mixture	NJTSRN-6000-2165	100 %	Not Established	

This product does not contain any hazardous chemicals as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

* The specific chemical identity (including CAS No.) and / or specific concentrations of the constituents contained in this vehicle are regarded as "Trade Secret" information.

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. Acute overexposure may result in irritation of the throat and lungs. May aggravate existing lung conditions.
Skin Contact: Avoid skin contact. Slight to moderate irritant. May cause allergic reaction. 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. Pre-existing skin conditions may make the skin more susceptible and facilitate uptake by this route. Those known to be sensitized to acrylates should avoid all exposure to this product. Practically non- toxic.
Eye Contact: Avoid eye contact. May cause slight irritation which is readily reversible with washing. May aggravate existing eye conditions.
Ingestion: Considered practically non- toxic.

IV. FIRST AID PROCEDURES

Emergency & First Aid Procedures
Eyes: Immediately flush eyes with large amounts of water and continue flushing for 15 minutes until irritation subsides. If irritation persists, seek medical attention.
Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. Launder contaminated clothing before reuse.

Inhalation: In case of exposure to high concentrations of vapor or mist, remove victim from exposure. 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. Never give anything by mouth to an unconscious person.

Ingestion: Do NOT induce vomiting. Seek immediate medical attention.

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	Lower Limit: Not applicable	Upper Limit: Not applicable
Extinguishing Media: Use dry chemical, foam, or CO ₂ as an extinguishing media.		
Special Fire Fighting Procedures: Fire fighters wear self contain breathing apparatus. Water may be ineffective, but can be used to cool containers exposed to heat or flame.		
Unusual Fire & Explosion Hazard: Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and other oxides may be generated as products of combustion.		

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Provide adequate ventilation during clean- up. Remove all sources of ignition, direct heat or open flame. Collect large spills with shovel, dry sand and/ or absorbent materials such as dirt, sand or vermiculite. Place in a suitable container for disposal. Clean spill area with detergent solutions.

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. DO NOT allow to enter drains, waterways or sewers.

VII. HANDLING AND STORAGE

Handling and Storage: Store containers in a cool, well-ventilated area. 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. See NFPA and OSHA 1910.106. Flammable and Combustible Liquids. Do Not transfer to unmarked containers. Follow DOT regulations during transport. Consumption of food and beverages should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, and smoking.

Other Precautions: For industrial use only. Do not ingest. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Requirements: If vapor or mist is generated when the material is heated or handled, 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: Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.

Skin: Synthetic gloves may be worn to minimize exposure. Wash hand with soap before eating, smoking and / or using the toilet.

Eye: If material is handled such that it could be splashed into eyes, wear plastic face shield, safety glasses or splash-proof safety goggles. Eyewash stations recommended.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: 200- 394 °F	Vapor Density (Air = 1): > 1
Relative Density (H₂O = 1): .993 average	Vapor Pressure (mm Hg @ 68°F): No Data

Material Density Lbs./Gal: 8.27 average	Solubility in Water: Soluble
% Volatiles by Weight: 24-29 (excluding water)	Evaporation Rate: Slower than Butyl Acetate
VOC: lbs/gal: 2.40 g/L: 288	Appearance/Odor: Milky Liquid / Mild Ammonia Odor

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	Conditions to avoid: Direct heating, sources of ignition, dirt or chemical contamination.
Hazardous Polymerization: Will Not occur.	Materials to avoid: Strong oxidizing agents.
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, drains or sewers.

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 recycling as ink is not possible, material may be incinerated or land filled at a licensed facility in accordance with local, state, and federal regulations.

XIV. TRANSPORT INFORMATION

Flammability Classification:	Not Regulated
OSHA:	Class III B
DOT Shipping Name (ground):	Not Regulated
DOT Label:	Not Applicable
DOT Identification Number:	Not Applicable

XV. REGULATORY INFORMATION

SARA Title III Section 313: This material DOES NOT contain a toxic chemical in excess of 1% of the mixture (0.1% if listed toxic chemical is a carcinogen)	
Section 302 – (Extremely Hazardous Substances) This product DOES NOT contain an extremely hazardous substance.	
Section 311 / 312 – 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:	No

Immediate (Acute) Health Hazard: No
Delayed (Chronic) Health Hazard: No

Clean Air Act - 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:

These products are in compliance with CONEG regulations to be less than 100 ppm total quantity of cadmium, hexavalent chromium, lead and mercury.

Clean Air Act - 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).

TSCA Section 8(b) Inventory Status:

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

Canada, DSL Status:

All component(s) of this product are listed on the Canadian DSL Inventory.

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.

B

Safety Glasses
Gloves

