

Material Safety Data Sheet # 198
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200



Date of preparation: 9/3/2010
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 MSDS#: 198

I. PRODUCT IDENTIFICATION

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033 Emergency phone: (323) 264-2200	<p align="center">HMIS HAZARD IDENTIFICATION</p> <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 Flexo Overprint Varnish	Manufacturer's code: Various, UV13868, UV14963								
Trade Name: UV Flexo Matte, Gloss, Satin OPV & Coatings									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Bezophenone EINECS 204-337 6	119-61-9	1- 3	OSHA / PEL ACGIH / TLV Xi: R36/37/38 – 52/53, H315, H319, H412	Not Established Not Established
1,6 Hexanediol diacylate EINECS 235-921-9	13048-33-4	8.0	OSHA / PEL ACGIH / TLV Xi: H315, H319, H317	Not Established Not Established
Diocetyl Maleate	142-16-5	0.45	OSHA / PEL ACGIH / TLV R 36/ 37/ 38	Not Established Not Established
Polyol Acrylate	Proprietary	1.2	OSHA / PEL	Not Established
2-[[[(butylamino)carbonyl]oxy]ethyl acrylat	63225-53-6	5.0	OSHA / PEL	Not Established

	
Health Hazard	Dangerous for the environment

Refer to section 16 for explanation of Hazard & Risk statements.

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Avoid inhalation. Inhalation of mist or vapor can cause irritation of mucous membranes and respiratory tract. Acute overexposure may result in irritation of the throat and lungs.

Skin Contact: Avoid skin contact. This product is irritating to the skin upon direct contact. 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.

Eye Contact: Avoid eye contact. Moderate irritant. This product is irritating to the eyes upon direct contact. Can cause burning sensation, tearing, swelling, and redness. Those known to be sensitized to acrylates should avoid all exposure to this product. Avoid prolonged exposure.

Ingestion: Do not ingest. 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. See *Notes to Physician* 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 cold water. If redness or irritation occurs, seek medical attention.

Inhalation: 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.

Ingestion: Do not induce vomiting. If vomiting should occur spontaneously keep airway clear. 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: (100 C) 212 F Cleveland open cup	Auto-ignition Temperature °F: No Data	
Flammable Limits in Air (% Volume)	Lower Limit: No Data	Upper Limit: No Data
Extinguishing Media: Use water spray, foam, CO ₂ , or dry chemical extinguishing media.		
Special Fire Fighting Procedures: Remove all ignition sources. Firefighters wear self-contained breathing apparatus and complete personal protective equipment when entering buildings and confined areas where this material is stored. Keep containers cool by spraying with water if exposed to fire.		
Unusual Fire & Explosion Hazard: Polymerization is a highly exothermic reaction and may produce sufficient heat to cause thermal decomposition. High temperatures and fire conditions may cause rapid and uncontrollable polymerization which can result in explosions and the violent rupture of storage vessels. Uncontrolled polymerization may occur at temperatures above 140F (60C).		

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Remove all ignition sources, as spilled material may polymerize. Wear protective clothing and gloves. Move leaking containers to ventilated area. Stop discharge, if it can be performed safely. Absorb product with a suitable material such as vermiculite, cloth or sawdust. Place in a suitable container for disposal. Do NOT flush to sewer, drains or waterways. Clean up with a suitable

VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool, well-ventilated area. DO NOT expose to direct sunlight, ultraviolet light or temperatures exceeding 140 F (60C) as it may cause uncontrollable

polymerization of this product with generation of heat. Keep away from all sources of ignition. Store in stainless steel, amber glass, amber polyethylene or baked phenolic lined container. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. Always wash hands and face with soap and water before eating, drinking, and smoking. Avoid discharge into the environment

Other Precautions: For industrial use only. Do not ingest. Food, beverages, and tobacco should not be carried, stored or consumed in work areas. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Requirements: Local exhaust is recommended. 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: The use of impermeable gloves and protective clothing (boots, aprons etc.) over parts of the body subject to exposure is recommended. DO NOT wear PVC gloves as PVC absorbs Acrylate. Safety showers are recommended.

Eye: The use of eye protection is recommended. Wear plastic face shield or splash-proof safety glasses or goggles. Eye wash stations are recommended.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Point °F: 212 – 482 °F	Vapor Density (Air = 1): No Data
Relative Density (H₂O = 1): 1.0 – 1.27	Vapor Pressure (mm Hg @ 68°F): < 1
Material Density Lbs./Gal: 8.33 – 10.58	Solubility in Water: Insoluble
% Volatiles by Weight: < 0.5	pH: No Data
VOC: lbs/gal: 0.053 g/L: 6.35	Appearance/Odor: Liquid / Ester like Odor

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	Conditions to avoid: Sources of ignition. Excessive heat, temperatures 140 F (60C). Direct sunlight, ultraviolet light.
Hazardous Polymerization: Hazardous exothermic polymerization can occur when temperatures exceed 140 F (60C) or exposed to direct sunlight.	Materials to avoid: Contact with strong oxidizers, free radical producing initiators, peroxides and metal ions.
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

Benzophenone 119-61-9

Oral LD50 1600-2895 mg/ kg (mouse)

Dermal LD50 > 3500 mg/ kg (rabbit)

The toxicological properties of this product have not been determined. Prolonged or repeated contact with skin and mucous membrane may result in irritation symptoms such as redness, blistering and dermatitis.

The inhalation of airborne droplet may cause irritation of the respiratory tract.

XII. ECOLOGICAL INFORMATION

Harmful to aquatic organisms. May cause long lasting effects in the aquatic environment. Do Not allow to enter sewers, waterways, drains etc.



Dangerous for the environment

XIII. DISPOSAL INFORMATION

Waste Disposal Method: 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:

OSHA:	Class III B
DOT:	Not Regulated
UN Number:	Not applicable
ADR/ RID:	Not Applicable
IMDG:	Not Regulated
IATA:	Not Restricted

XV. REGULATORY INFORMATION

SARA Title III Section 313:

This material DOES NOT contain chemicals subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act.

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.

Canadian Domestic Substances List (DSL):

All components of this product are either exempt or listed on the DSL.

XVI. OTHER INFORMATION

Hazard & Risk Statements

H 315: Causes skin irritation
H317: May cause allergic reaction
H319: Causes serious eye damage
H412: Harmful to aquatic life with long lasting effect
Xi: Irritant
R 36/ 38-43 Skin, eye or inhalation irritant

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

