Material Safety Data Sheet #192

For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Date of preparation: 2/8/2011 MSDS #: 192

I. PRODUCT IDENTIFICATION

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033	HMIS HAZARD IDENTIFICATION
	Health 3
Emergency phone: (323) 264-2200	Flammability 1
	Reactivity 1
	Personal B
	Protection
Product Class: UV Over Print Varnish	Manufacturer's code: UV13651
Trade Name: NO- LAM Imprintable OVP	

II. HAZARDOUS INGREDIENTS

Material	CAS#	%	Exposure Limits	Units
glycerol, propoxylated	52408-84-1	22.5	Xi R36- 43	
Pentaerythritol tetraacylate	4986-89-4	4.5	Not Established	
Pentaerythritol tetraacylate	3524-68-3	3.0	Not Established	
2-[(butylamino)carbonyl]oxy]				
ethyl Acrylate	63225-53-6	11.5	Xi, R36/38	
Diphenyl-	75980-60-8	2.5	Not Established	
polyol Acrylate	Proprietary	0.8	Not Established	

Hazard Description: Skin, eye or inhalation irritant Xi, R 36/38-43

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: Avoid inhalation. Inhalation of mist or vapor may cause irritation of respiratory tract. Acute overexposure may result in irritation of the throat and lungs and respiratory tract. Chronic exposure to high concentrations of aerosols or mists to laboratory animals has resulted in non-specific symptoms related to the nervous system, gastrointestinal tract, and lungs.

Skin Contact: Avoid skin contact. 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. 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.

Eye Contact: Avoid eye contact. Moderate irritant. Can cause burning sensation, tearing, swelling, and redness. Injury may persist for several days. . Exposure to high concentrations of vapors can be irritating to

the eyes.

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. Loss of consciousness and convulsions followed by death may result. 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 until irritation subsides. Remove contact lenses if present and easy to do. Retract eyelids often. Seek immediate medical attention.

Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water for 15 minutes. Wash skin with mild non abrasive soap. Pay particular attention to hair, nose, ears and other areas not easily cleaned. Do not use solvents for cleaning hands or skin because solvents may increase penetration of the product into the skin. Seek medical attention.

Launder contaminated clothing with an alkaline detergent before reusing. Discard all contaminated shoes, belts or other leather goods.

Inhalation: If mist or exposure is generated when the material is heated or handled, 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 immediate medical attention. Keep the person warm.

Ingestion: Do not induce vomiting as aspiration risk exceeds poisoning risk. If a person swallows Acrylate products, give lukewarm water (1 pint) **only if person is completely conscious and alert**. Never give anything by mouth to an unconscious person. 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 if aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration.

V. FIRE AND EXPLOSION DATA

Flash Point °F: 212 F	Auto-ignition T	Auto-ignition Temperature °F: No Data	
Flammable Limits in Air (%	Lower Limit: No Data	Upper Limit: No Data	
Volume)			

Extinguishing Media: Use water fog, foam, CO₂, or dry chemical extinguishing media. Fight larger fires with water spray or alcohol resistant foam. Avoid the use of a stream of water to control fires since frothing can occur.

Special Fire Fighting Procedures: Remove all ignition sources. Do not enter fire area without proper protection. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas. Fight fire from a safe distance. Water may be ineffective in firefighting due to low solubility. Use water spray or fog for cooling.

Unusual Fire & Explosion Hazard: High temperatures, inhibitor depletion, accidental impurities, exposure to radiation or oxidizers and fire conditions, may cause rapid spontaneous and uncontrollable polymerization reaction generating heat / pressure, which can result in explosions and the violent rupture of storage vessels. 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: Remove all ignition sources, as spilled material may polymerize. Ensure adequate ventilation. Wear protective equipment during clean- up. Stop discharge, if it can be performed safely, and contain material. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in a suitable container for disposal. Wash spill area with a strong detergent and water solution; rinse with water, contain and minimize water use during clean- up.

Keep spill water from entering drains. Do NOT flush to sewer. Advise water authority if spillage has entered into water course or drainage system.

VII. HANDLING AND STORAGE

Handling and Storage: Wear proper protective clothing and gloves when handling. Store in containers in a cool, well-ventilated area. Do Not store above 38 °C/100 °F or excessive cold temperatures, 0 °C/32 F. Store in tightly closed containers away from heat, sparks, open flame, sources of ignition. Avoid exposure to ultraviolet light and/or sunlight. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. Always wash hands and face with soap and water after handling. Do not use solvents for cleaning hands or skin, as solvents may increase the penetration of the product into the skin.

Other Precautions: For industrial use only. Do not ingest. 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.

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: Use impervious synthetic rubber clothing (apron, boots, gloves, etc.) over parts of the body subject to exposure. A barrier cream is recommended to be applied on clean hands <u>before</u> applying gloves, not after exposure. A barrier cream alone is not recommended; as it is not impervious to chemicals. Safety showers are recommended.

Eye: Eye protection is required under conditions of normal use. Wear plastic face shield or splash-proof safety glasses or goggles. Eye wash stations are recommended.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range ° F : 212 F	Vapor Density (Air = 1): No Data
Relative Density ($H_2O = 1$): 1.21	Vapor Pressure (mm Hg @ 70°F): >1
Material Density Lbs./Gal: 10.08	Solubility in Water: Insoluble
% Volatile Organic Compounds (VOC) by	pH: No Data
Weight: < 0.5	
VOC: lbs/gal: 0.05 g/L: 6.05	Appearance/Odor: Light Colored Liquid./ Slight
	Odor

X. STABILITY AND REACTIVITY INFORMATION

A. STABILITY AND REACTIVITY INFORMATION		
Stability (Thermal, Light, etc.): Stable under	Conditions to avoid: Excessive heat, 38 °C/ 100 °F	
normal circumstances and conditions of proper	or cold 0 °C/ 32 F. Sources of ignition. Loss of	
storage.	dissolved air or loss of polymerization inhibitor.	
	Contamination of incompatible materials. Do Not	
	store above 140°F. Avoid exposure to ultraviolet	
	light, and / or sunlight.	
Hazardous Polymerization: High temperatures	Materials to avoid: Initiators including peroxides,	
(>140°F) and oxygen deficient atmosphere reduce	strong oxidizing agents, copper, copper alloys,	
inhibitor effectiveness and may cause	carbon steel, iron, rust, nickel, cobalt, and strong	
polymerization, raising the temperature and	bases.	
pressure, possible rupturing the container. Do NOT		
blanket or mix with nitrogen or other inert gases as		
this renders the inhibitor ineffective.		
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 DataTeratogen:No DataReproductive Toxicity:No Data

Polyol Acrylate CAS #: proprietary

Oral Rat LD50 > 2000 mg/kg Skin Rabbit LD50> 2000 mg/kg

XII. ECOLOGICAL INFORMATION

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

Ecological Information on the regulated components of this product is as follows:

Polyol Acrylate

Fish 96 H LC50 1 - 10 mg/l

Biodegradable, No bioaccumulation potential

Negligible ecotoxicity.

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 applicable / Not Regulated

ICAO/ IATA: Not applicable/ Not Regulated

IMDG/ IMO: Not applicable /Not Regulated

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 contains a chemical(s) known by the state of California to cause cancer and/or reproductive harm.

Chemical	CAS#	
Toluene	108-88-3	Trace amount

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.