

**Material Safety Data Sheet # 338**  
**For Printing Inks and related Materials**  
**OSHA Hazard Communication Standard, 29 CFR 1910.1200**

Date of preparation: 3/26/07  
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 MSDS#: 338

**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"><b>HMIS HAZARD IDENTIFICATION</b></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>1</td> </tr> <tr> <td>Personal Protection</td> <td>B</td> </tr> </table>	Health	2	Flammability	1	Reactivity	1	Personal Protection	B
Health	2								
Flammability	1								
Reactivity	1								
Personal Protection	B								
<b>Product Class:</b> Lithographic UV Printing Ink	<b>Manufacturer's code:</b> UV12152 – 5, UV12075- 78, UV13631, UV13681, UV13682, UV13683, UV14679, UV14680, UV14681, UV14699, UV14749, UV14750, UV14751, UV14752, UV14912, UV14955, UV15084, UV15130, UV15145, UV15294								
<b>Trade Name:</b> UV Waterless LAM Process Series, UV Aqualess									

**II. HAZARDOUS INGREDIENTS**

Material	CAS #	%	Exposure Limits	Units
Acrylates, mixtures	proprietary	4 - 31	Not Established	
Polyol Acrylate	proprietary	0.5	Not Established, R36	
Glycerol propoxylated esters w/ acrylic acid	52408-84-1	2.50	Xi, H317, H319	
2-[[[(butylamino) carbonyl]oxy]ethyl acrylat	63225-53-6	3.25	Xi, H315, H319	
Resin Mixtures	not available	0 - 6	Not Established	
1,6- Hexandioldiacrylate	13048-33-4	2.0	ACGIH TLV/ TWA	Not Established
Glycerolpropoxytriacylate	52408-84-1	2.0	ACGIH TLV/ TWA	Not Established

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**

<b>Effects of Overexposure</b>
<b>Inhalation:</b> Avoid inhalation. Excess inhalation of mist or vapor may cause dizziness, nausea, or irritation of nasal and respiratory passages. Medical conditions aggravated by normal exposure.
<b>Skin Contact:</b> 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.
<b>Eye Contact:</b> Moderate irritant. Can cause burning sensation, tearing, swelling, and redness. Direct contact may cause irritation.
<b>Ingestion:</b> May irritate the mouth, throat, and cause gastrointestinal tract irritation

#### IV. FIRST AID PROCEDURES

<b>Emergency &amp; First Aid Procedures</b>
<b>Eyes:</b> Flush with large amounts of water, lifting upper and lower eyelids. If irritation persists seek medical attention
<b>Skin:</b> Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. Persons with dermatitis should avoid skin contact.
<b>Inhalation:</b> Remove individual to fresh air. If breathing has stopped or is irregular, administer artificial respiration and supply oxygen if it is available.
<b>Ingestion:</b> Do not induce vomiting. Seek immediate medical attention.
<b>Notes to Physician:</b> Medical conditions aggravated by normal exposure. Target Organs: Skin, eyes, lungs Primary Routes of Entry: Eyes, inhalation, dermal.

#### V. FIRE AND EXPLOSION DATA

<b>Flash Point °F:</b> 212 °F	<b>Auto-ignition Temperature °F:</b> No Data
<b>Flammable Limits in Air</b>	<b>Lower Limit:</b> No Data <b>Upper Limit:</b> No Data
<b>Extinguishing Media:</b> Use foam, Carbon dioxide, or dry chemical.	
<b>Special Fire Fighting Procedures:</b> Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas.	
<b>Unusual Fire &amp; Explosion Hazard:</b> High temperatures and fire conditions may cause rapid and uncontrollable 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

<b>Steps to be taken in event of spill or release:</b> 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. Advise water authority if spillage has entered into water course or drainage system. Do NOT flush to sewer.
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#### VII. HANDLING AND STORAGE

<b>Handling and Storage:</b> Avoid storage above 140 F. Keep containers closed when not in use. Avoid sunlight and ultraviolet light. Remove all sources of ignition. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor
<b>Other Precautions:</b> For industrial use only. Do not ingest.

#### VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Ventilation Requirements:</b> 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.
<b>Personal Protective Equipment</b>
<b>Respirator:</b> Respiratory protection is not required under conditions of normal use.
<b>Skin:</b> Skin protection is recommended for short duration exposures. Use impervious synthetic rubber protective gloves. Safety showers are recommended.
<b>Eye:</b> Eye protection is recommended. Wear plastic face shield or splash-proof safety glasses or goggles.

### IX. PHYSICAL AND CHEMICAL DATA

<b>Boiling Range °F:</b> > 212 °F	<b>Vapor Density (Air = 1):</b> No Data
<b>Relative Density (H<sub>2</sub>O = 1):</b> 0.70 – 1.28	<b>Vapor Pressure (mm Hg @ 68°F):</b> No Data
<b>Material Density Lbs./Gal:</b> 5.83 – 10.66	<b>Solubility in Water:</b> Insoluble
<b>% Volatiles by Weight:</b> < 1.0	
<b>VOC: lbs/gal:</b> < 0.10 <b>g/L:</b> 12.8	<b>Appearance/Odor:</b> Colored paste

### X. STABILITY AND REACTIVITY INFORMATION

<b>Stability (Thermal, Light, etc.):</b> Stable under normal conditions.	<b>Conditions to avoid:</b> Storage >140°F, exposure to UV light and /or sunlight. Contamination with incompatible materials.
<b>Hazardous Polymerization:</b> High temperatures (>140°F) and oxygen deficient atmosphere reduce inhibitor effectiveness and may cause polymerization, raising the temperature and pressure, possible rupturing the container. Do NOT blanket or mix with nitrogen or other inert gases as this renders the inhibitor ineffective	<b>Materials to avoid:</b> Avoid initiators including peroxides; avoid strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust, nickel, cobalt, strong bases.
<b>Hazardous Decomposition Products:</b> Carbon Monoxide, Carbon Dioxide and Smoke	

### XI. TOXICOLOGICAL INFORMATION

<b>CARCINOGEN:</b> 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).	
<b>Mutagen:</b>	No Data
<b>Teratogen:</b>	No Data
<b>Reproductive Toxicity:</b>	No Data
Polyol Acrylate	CAS #: proprietary
Oral Rat LD50 > 2000 mg/kg	
Skin Rabbit LD50 > 2000 mg/kg	
Glycerol propoxylated esters w/ acrylic acid	52408-84-1
Oral Rat LD50 > 5000 mg/kg	

### XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time. As with all chemicals and products do not allow to enter drains, sewers or waterways.
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### XIII. DISPOSAL INFORMATION

<b>Waste Disposal Method:</b> This product is not regulated under the Federal Resource Conservation and Recovery Act (RCRA) as a hazardous waste. Dispose of in accordance with local, State, and Federal laws. Do not discharge in waterways or sewer systems.
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### XIV. TRANSPORT INFORMATION

<b>Flammability Classification:</b>	
<b>OSHA:</b>	Class III B
<b>DOT (Ground):</b>	Not Regulated
<b>ICAO/ IATA (Air):</b>	Not Regulated
<b>IMDG/ IMO (Sea):</b>	Not Regulated

**Not classified as dangerous in the meaning of transport regulations**

## **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

**Section 302 – Extremely hazardous substances:** This product does not contain any components regulated under Section 302 (40 CFR 355) as EHS.

### **TSCA Section 8(b) Inventory Status:**

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

### **International Regulations**

#### **Reduction of Hazardous Substances (RoHS) Compliance:**

Directive 2002/95/EC of the European Parliament and of the Council of the European Union - Reduction of Hazardous Substances (RoHS) Compliance.

This product is compliant with the RoHS Directive.

**EINECS (European Economic Community)** All ingredients listed.

### **U.S. State Regulations**

#### **California Proposition 65:**

This product contains chemicals known by the state of California to cause cancer and/or reproductive harm.

Chemical CAS #

2- Methyl-1(4-methylthio) phenyl 71868-10-5  
2(4-morpholinyl)-1-propane

**CONEG Legislation:** Meets all current State and Heavy Metal limitations.

## **XVI. OTHER INFORMATION**

### **Hazard and Risk Phrases:**

R36: Irritating to eyes.

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

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.

**B**

Safety Glasses  
Gloves

