

**Material Safety Data Sheet # 199**  
**For Printing Inks and related Materials**  
**OSHA Hazard Communication Standard, 29 CFR 1910.1200**

Date of preparation: 11/11/98  
 Updated: 3/6/2015  
 Supersedes: 8/30/2010  
 MSDS #: 199

**I. PRODUCT IDENTIFICATION**

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033  Emergency phone: (323) 264-2200	<b>HMIS HAZARD IDENTIFICATION</b>								
	<table border="1"> <tr><td>Health</td><td>3</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	3	Flammability	1	Reactivity	1	Personal Protection	B
Health	3								
Flammability	1								
Reactivity	1								
Personal Protection	B								
<b>Product Class:</b> Acrylated Compound	<b>Manufacturer's code:</b> UVS- 1001								
<b>Trade Name:</b> UV Open Pocket Compound									

**II. HAZARDOUS INGREDIENTS**

Material	CAS #	%	Exposure Limits	Units
Acrylated resin	proprietary	3.2	OSHA/ PEL ACGIH/ TLV	Not Established Not Established
Pentaerythritol tetraacrylate	4986-89-4	< 0.5	OSHA / PEL ACGIH / TLV	Not Established Not Established
Pentaerythritol tetraacrylate	3524-68-3	< 0.5	OSHA/ PEL ACGIH/ TLV	Not Established Not Established
Polyol Acrylate	proprietary	< 1	OSHA/ PEL ACGIH/ TLV	Not Established Not Established
Tripropylene glycol diacrylate	42978-66-5	34	OSHA/ PEL ACGIH/ TLV	Not Established Not Established

**III. HEALTH HAZARD INFORMATION**

<b>Effects of Overexposure</b>
<b>Inhalation:</b> Caution should be taken to prevent aerosolization or misting of this product. Acute overexposure may result in irritation of the throat and lungs. May cause respiratory tract irritation. 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.
<b>Skin Contact:</b> Avoid skin contact. Direct contact with this material may cause skin irritation. 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. Individuals with pre-existing skin disorders can be at greater risk. Those known to be sensitized to acrylates should avoid all exposure to this product.
<b>Eye Contact:</b> Avoid eye contact. This product may be irritating to the eyes upon direct contact. Exposure to high concentrations of vapors may be irritating to the eyes.
<b>Ingestion:</b> No specific information available. Do not ingest. <i>Notes to Physician</i> section below.

#### IV. FIRST AID PROCEDURES

<b>Emergency &amp; First Aid Procedures</b>
<b>Eyes:</b> Immediately flush eyes with large amounts of water and continue flushing for 15 minutes until irritation subsides. 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. Particular attention should be paid to hair, nose, ears, and other areas not easily cleaned.*
<b>Inhalation:</b> 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 medical attention.
<b>Ingestion:</b> Do not induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious person.
<b>Notes to Physician:</b> 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

<b>Flash Point °F:</b> 306 F	<b>Auto-ignition Temperature °F:</b> 375 F	
<b>Flammable Limits in Air (% Volume)</b>	<b>Lower Limit:</b> No Data	<b>Upper Limit:</b> No Data
<b>Extinguishing Media:</b> Use water fog, foam, CO <sub>2</sub> , or dry chemical extinguishing media.		
<b>Special Fire Fighting Procedures:</b> Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists. Keep containers cool by spraying with water if exposed to fire.		
<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 or containers. 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> Ventilate area. Remove all ignition sources, open flame etc. as spilled material may polymerize. Absorb with inert material such as vermiculite, sand, silica gel, dirt. Scrape up with trowel or scoop and place in a suitable container. Flush area with water. Do not allow to enter waterways, drains or sewers.
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#### VII. HANDLING AND STORAGE

<b>Handling and Storage:</b> Store in containers in a cool, well-ventilated area. Keep away from all sources of ignition, open flame. Do not store in direct sunlight or in ultraviolet light. Product can slowly polymerize. Do not store above 100 F. Keep away from oxidizing agents, alkaline and acid materials. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. Keep containers tightly closed. Wash thoroughly after handling.
<b>Other Precautions:</b> 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. Consumption of food and beverages should be avoided in work areas.

#### 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> 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.
<b>Skin:</b> Impervious gloves (Neoprene). A combination of barrier cream, applied before exposure, and gloves

is recommended. Do not apply cream after exposure

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

#### IX. PHYSICAL AND CHEMICAL DATA

<b>Boiling Range °F:</b> 590 F	<b>Vapor Density (Air = 1):</b> No Data
<b>Relative Density (H<sub>2</sub>O = 1):</b> 1.58	<b>Vapor Pressure (mm Hg @ 68°F):</b> 0.1
<b>Material Density Lbs./Gal:</b> 13.16	<b>Solubility in Water:</b> Insoluble
<b>% Volatile Organic Compounds (VOC) by Weight:</b> < 0.2	<b>% Solids by Weight:</b> 99.8
<b>VOC: lbs/gal:</b> 0.026 <b>g/L:</b> 3.16	<b>Appearance/Odor:</b> Light Colored paste

#### X. STABILITY AND REACTIVITY INFORMATION

<b>Stability (Thermal, Light, etc.):</b> Stable	<b>Conditions to avoid:</b> Excessive heat, open flame, sources of ignition. Storage above 100°F, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.
<b>Hazardous Polymerization:</b> May occur. Uncontrolled polymerization may cause rapid evolution of heat and increased pressure that could result in violent rupture of sealed storage vessels or containers.	<b>Materials to avoid:</b> Polymerization initiators including peroxides; strong oxidizing agents, copper, copper alloys carbon steel, iron, rust, and strong bases.
<b>Hazardous Decomposition Products:</b> Fumes produced when heated to decomposition may include carbon monoxide and carbon dioxide and other oxides as products of combustion.	

#### 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
<u>Tripropylene glycol diacrylate</u>	
Acute Oral (rat) LD 50 6800 mg/ kg	
Acute Dermal (rabbit) LD50 > 2000 mg/ kg	

#### XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time.
This product contains Tripropylene glycol diacrylate which may be toxic to aquatic organisms.
As with all products do not allow to enter into sewers, waterways or drains.

#### XIII. DISPOSAL INFORMATION

<b>Waste Disposal Method:</b> 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.
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#### XIV. TRANSPORT INFORMATION

<b>Flammability Classification:</b>	
<b>OSHA:</b>	Class III B
<b>DOT:</b>	Not Regulated

#### XV. REGULATORY INFORMATION

<b>SARA Title III Section 313:</b>
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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**

**%**

Toluene

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.