

**Material Safety Data Sheet # 203.18**  
**For Printing Inks and related Materials**  
**OSHA Hazard Communication Standard, 29 CFR 1910.1200**

Date of preparation: 3/10/2010  
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 MSDS#: 203.18

**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>2</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> <tr> <td>Personal Protection</td> <td>B</td> </tr> </table>	Health	2	Flammability	2	Reactivity	1	Personal Protection	B
Health	2								
Flammability	2								
Reactivity	1								
Personal Protection	B								
<b>Product Class:</b> Lithographic UV Printing Ink	<b>Manufacturer's code:</b> Various, UV14776, I011991, UVV8400- 8943, UV14783-5,UV14870, UV15015,								
<b>Trade Name:</b> OS UV Vinylcure P877 Metallic Silver & Blends									

**II. HAZARDOUS INGREDIENTS**

Material	CAS #	%	Exposure Limits	Units
Acrylates, mixtures	proprietary	4 - 31	Not Established	
Diethylene glycol diacrylate [EINECS- NR: 223-791-6]	4074-88-8	4	T; R-24-36/38-43	
Neopentylglycol Propoxylated Diacrylate	84170-74-1	12	Xi; R36	
Glycerolpropoxytriacrylate [NLP 500-114-5]	52408-84-1	10- 11	Xi; R 36	
Resin Mixtures	not available	0 - 6	Not Established	
Benzophenone EINECS: 204-337-6	119-61-9	0 - 1	Not Established	
Dipentaerythritol hexaacrylate	29570-58-9	4	Not Established	
Dipentaerythritol pentaacrylate	60506-81-2	4	Not Established	
Aluminum	7429-90-5	3 - 8	OSHA PEL/TWA total dust 15 mg/m3 OSHA PEL/ TWA respirable fraction 5 mg/m3 ACGIH TLV/TWA metal dust 10 mg/m3	
Monoalkylbenzene (C12 average)	68648-86-2	2 - 4	Not Established	

**III. HEALTH HAZARD INFORMATION**

<b>Effects of Overexposure</b>
<b>Inhalation:</b> Avoid inhalation. Inhalation of mist or vapor may cause irritation of respiratory tract,

headaches, dizziness, and other signs of central nervous system depression.
<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. Primary route of entry.
<b>Eye Contact:</b> Avoid eye contact. Moderate irritant. Can cause burning sensation, tearing, swelling, and redness. Injury may persist for several days.
<b>Ingestion:</b> 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 <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. Seek immediate medical attention.
<b>Skin:</b> Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek immediate medical attention. Launder contaminated clothing before reuse.
<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. Clean mouth with water. 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> >212	<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 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. Closed containers may explode when exposed to extreme heat. Closed containers may be cooled with a fine water spray. Do Not use a solid water stream as it scatter and spread the fire. If solvent has completely burned out and the aluminum has ignited, containers should be isolated and fine dry sand placed around outside of containers.	
<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. Incomplete combustion may result in smoke, fumes, or carbon dioxide and nitrogen oxide.	

#### 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. Ensure adequate ventilation. 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. Do NOT flush to sewer. Advise water authority if spillage has entered into water course or drainage system.
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#### VII. HANDLING AND STORAGE

<b>Handling and Storage:</b> Store in containers in a dry, cool and well-ventilated area. Do Not store above 104 °F. Avoid exposure to ultraviolet light and/or sunlight. Keep away from all ignition sources, open flame etc.
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Avoid incompatible materials, such as alkalis, strong acids and chlorinated hydrocarbons. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor.

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

### 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:** Protective chemical resistant Neoprene gloves are recommended.

**Eye:** Eye protection is not required under conditions of normal use. 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> 212 – 583 F	<b>Vapor Density (Air = 1):</b> No Data
<b>Relative Density (H<sub>2</sub>O = 1):</b> 1.18 – 1.22	<b>Vapor Pressure (mm Hg @ 70°F):</b> > 1.0
<b>Material Density Lbs./Gal:</b> 9.83 – 10.16	<b>Solubility in Water:</b> Insoluble
<b>%Volatiles by Weight:</b> 4 - 9	<b>% Solids by Weight:</b> 91 - 96
<b>VOC: lbs/gal:</b> .91 <b>g/L:</b> < 110	<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> Avoid storage >100°F, Avoid exposure to ultraviolet light and/or sunlight, heat open flame, sources of ignition. Contamination with incompatible materials.
<b>Hazardous Polymerization:</b> High temperatures (>100°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. Avoid strong acids, alkalis and chlorinated hydrocarbons
<b>Hazardous Decomposition Products:</b> CO <sub>2</sub> , 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)

Diethylene glycol diacrylate 4074-88-8

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rat)

Skin irritation, Rabbit (OECD 404. 0-8) = <0.1 No skin irritation

Non sensitizing to Guinea pig

Neopentylglycol Propoxylated  
Diacrylate 84170-74-1  
Oral LD50 > 5000 mg/kg (rat)

Glycerolpropoxytriacrylate 52408-84-1  
[NLP 500-114-5]  
Oral LD50 > 5000 mg/kg irritating to eyes  
Dermal OCED 404., 0-8 = 0.6 (Rabbit) not classified

Dipentaerythritol hexaacrylate 29570-58-9  
Dipentaerythritol pentaacrylate 60506-81-2  
This material has not been fully investigated. This material is expected to cause eye irritation

Aluminum 7429-90-5  
Acute Toxicity  
Acute Oral (Rat) LD50: 75828.51 mg/kg  
Acute Dermal (Rat) LD50: 24570.02 mg/kg

## XII. ECOLOGICAL INFORMATION

This product contains components that may be harmful to aquatic organisms, and fish. Do not allow product to enter drains, watercourses or streams. Releases to the environment are to be avoided.

## XIII. DISPOSAL INFORMATION

**Waste Disposal Method:** 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. Waste materials should be dumped or buried in an approved landfill, or incinerated in a suitable combustion chamber. Disposal must comply with all local, state, and federal regulations. Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability:

- 1) Recycle or rework if at all feasible
- 2) Incinerate at an authorized facility
- 3) Treat at an acceptable waste treatment facility.

## XIV. TRANSPORT INFORMATION

**Flammability Classification:** Combustible  
**OSHA:** Class III B  
**DOT:** Not Regulated  
**IMDG (Sea):** Not Regulated  
**IATA/ ICAO (Air):** Not Regulated

## XV. REGULATORY INFORMATION

### SARA Title III Section 313:

This material contains a chemical(s) subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act.

<u>Chemical</u>	<u>CAS#</u>
Aluminum	7429-90-5

### SARA Section 302 - Extremely Hazardous Substances (EHS):

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.

**OSHA Hazardous Substance:** The materials in this product are classified as hazardous under OSHA regulations.

**Canadian Domestic Substance List (DSL)**

Substances are listed

**Hazard Symbols:**

X Irritant

**U.S. State Regulations**

**California Proposition 65:**

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

Toluene Trace amounts

**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

