

Material Safety Data Sheet # 378
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Date of preparation: 10-28-08
 Modified: 11-11-08

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: Lithographic UV-cure Printing Ink	Manufacturer's code: UV13090, UV13091, UV13092, UV13093, UV15109, UV15110, UV15111, UV15480, UV15481, UV15482, UV15483								
Trade Name: Envirocure Process.Series, Envirocure Web Process									

II. COMPOSITION / INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Glycerolpropoxy Triacrylate	52408-84-1	5-11	Not Established	
2,2-Dimethoxy-2-Phenylacetophenone	24650-42-8	3-5	Not Established	
Benzophenone	119-61-9	3-5	Not Established	
Proprietary Mixture	NJTSRN-6000-1620	24-28	Not Established	
Proprietary Mixture (Organic sulfonic acid)	NJTSTNo.29943300000-5595	0.01	Not Established	
Copper Compounds (As an integral part of dye or pigment molecule)	7440-50-8	0.006	OSHA PEL/TLV fume- 0.1 mg/m3 Dust-1 mg/m3 (as CU) ACGIH PEL/TLV 1 mg/m3	

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Not expected to be a hazard due to low volatility under standard conditions. Inhalation of mist or vapor may cause irritation or respiratory tract. Irritating to mucous membranes.
Skin Contact: Avoid skin contact. Contains material that may cause moderate skin injury (reddening and swelling). Prolonged contact may cause blistering. Since irritation may not occur immediately, contact can go unnoticed. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. Individuals with pre-existing skin disorders can be at greater risk.
Eye Contact: Avoid eye contact. Moderate irritant. May cause burning sensation, tearing, swelling and redness. Injury may persist for several days. Individuals with pre-existing eye disorders can be at greater risk.
Ingestion: Do not ingest. May irritate the mouth, throat, and gastrointestinal tract.

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. Seek medical attention.
Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and 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 immediate medical attention. Never give anything by mouth to an unconscious person.
Ingestion: Do not induce vomiting; risk of damage to lungs exceeds poisoning risk. Rinse mouth. Never give by mouth anything 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 of aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration.

V. FIRE AND EXPLOSION DATA

Flash Point °F: > 212 F	Auto-ignition Temperature °F: No Data	
Flammable Limits in Air (% Volume)	Lower Limit: No Data	Upper Limit: No Data
<p>Extinguishing Media: Use water fog, foam, CO₂, or dry chemical extinguishing media.</p> <p>Special Fire Fighting Procedures: Do not enter fire area without proper protection. Wear self contained breathing apparatus and complete personal protective equipment when entering confined area. Fight fire from a safe distance / protected location. Remove all sources of ignition. Heat or impurities may increase temperatures, build pressure, rupture closed containers, spread fire, increase risk of burns or injury. Water may be ineffective in firefighting due to low solubility. Use water spray or fog for cooling. Avoid the use of a steady stream of water to control fire since frothing can occur. Notify authorities if liquid enters sewers or public waters.</p> <p>Unusual Fire & Explosion Hazard: High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat or pressure. Closed containers may rupture or explode during runaway polymerization. Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and other oxides may be generated as products of combustion.</p>		

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Remove all ignition sources, as spilled material may polymerize. Wear protective gloves etc. Scrape up with trowel or scoop and place in a suitable container. Clean up with a suitable solvent.

VII. HANDLING AND STORAGE

Handling and Storage: Keep away from heat and sources of ignition. Keep away from open flame, strong oxidizers, radiation, and other initiators. Do not store in temperatures below 32 F (0 C) or above 38 C / 100 F. Store in tightly closed containers in a well-ventilated area. Always wear impervious gloves suitable to the material handled. Avoid breathing vapors and mist. Always wash hands and face with soap and water after handling product and before eating, drinking, and smoking.
Other Precautions: For industrial use only. Do not ingest. Consumption of food and beverages should be avoided 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: Adequate ventilation must be used in accordance with good engineering practice to provide and 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 in

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: When skin contact is possible use protective impervious synthetic rubber clothing boots, gloves, etc. over parts of the body subject to exposure. Safety showers recommended.

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

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: 212- 310 F	Vapor Density (Air = 1): < 1
Relative Density (H₂O = 1): 1.13 – 1.18	Vapor Pressure (mm Hg @ 70°F): N/A
Material Density Lbs./Gal: 9.43 – 9.85	Solubility in Water: Insoluble
%Volatiles by Weight: N/A (EPA Method 24)	Evaporation Rate: N/A pH: N/A
VOC: lbs/gal: N/A g/L: N/A	Appearance/Odor: Colored paste

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable under normal conditions.	Conditions to avoid: Heat, flames and sparks, direct sunlight or ultra violet light.
Hazardous Polymerization: Will not occur.	Materials to avoid: Contact with strong oxidizers, acids reducing agents, peroxides, strong alkalies or reactive metals to prevent exothermic polymerization.
Hazardous Decomposition Products: CO ₂ , CO, toxic vapors 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

XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time.

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

XV. REGULATORY INFORMATION

SARA Title III Section 313:

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

Proprietary Mixture

NJTSRN-6000-1620

SARA Section 302 - Extremely Hazardous Substances (EHS):

Proprietary Mixture NJTSRN-6000-1620

SARA Section 311/312 : Acute health hazard: Yes
Chronic health hazard Yes
Flammability hazard No
Pressure hazard No
Reactivity hazard Yes

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.

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.