

Material Safety Data Sheet # 225
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Date of preparation: 3/4/2013
MSDS#: 225

I. PRODUCT IDENTIFICATION

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033 Emergency phone: (323) 264-2200	HMIS HAZARD IDENTIFICATION								
	<table border="1"> <tr><td>Health</td><td>1</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	1	Flammability	1	Reactivity	1	Personal Protection	B
Health	1								
Flammability	1								
Reactivity	1								
Personal Protection	B								
Product Class: UV Reactive Diluent	Manufacturer's code: UVS-6047								
Trade Name: UV Coating Additive									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
(1-methyl-1,2ethadiyl)bis [oxy(methyl-2,1-ethanediyl)]diacrylate EINECS 256-032-2	42978-66-5	10 – 30	OSHA PEL Xi; R36/37/38, N; R51/53; R43	NE
NE: Not Established				
Relevant Phrases: For the wording of risk phrases refer to Section XVI				

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Avoid inhalation. Inhalation of mist or vapor may cause irritation of respiratory system. Acute overexposure may result in irritation of the throat and lungs. 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. This product is irritating to the skin upon direct contact. 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.
Eye Contact: Avoid eye contact. This product is irritating to the eyes upon direct contact. Can cause burning sensation, tearing, swelling, and redness. Exposure to high concentrations of vapors may be irritating to the eyes.
Ingestion: Do not ingest. Ingestion of small quantities is usually nonfatal unless aspiration occurs. 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

Emergency & First Aid Procedures
Eyes: If wearing contact lenses, remove before rinsing eyes. Immediately flush eyes with large amounts of water or eyewash solution and continue flushing for 15 minutes until irritation subsides. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention.
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.
Ingestion: Rinse nose, mouth and throat with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. 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: > 300 °F	Auto-ignition Temperature °F: No Data	
Flammable Limits in Air (% Volume)	Lower Limit: No Data	Upper Limit: No Data
Extinguishing Media: Use water fog, spray or mist, foam, CO ₂ , or dry chemical extinguishing media.		
Special Fire Fighting Procedures: Firefighters wear self-contained breathing apparatus and protective gear. Avoid breathing fire vapors. Fight advanced or massive fires from a safe distance or protected location. Move containers if it can be done without risk. Water may be used to cool containers exposed to heat or flame. Keep run-off water out of sewers, drains or watercourses. Dike for water control.		
Unusual Fire & Explosion Hazard: 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: 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. Dispose of in accordance with state, local or Federal regulations. Do Not discharge or allow to enter drains, sewers or waterways.

VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool, well-ventilated area. Wear proper protective clothing and gloves when handling. Do Not store above 38 °C/ 100 °F or excessive cold temperatures, 0 °C/ 32 F. Keep from freezing. 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. Consumption of food and beverages should be avoided in work areas. Always wash hands and face with soap and water before eating, drinking, and smoking.
Other Precautions: For industrial use only. Do not ingest. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor.

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 gloves and apron are required over parts of the body subject to exposure. Safety showers are recommended.
Eye: Eye protection is 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. Eyewash stations are

recommended.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: > 220 °F	Vapor Density (Air = 1): < 1
Relative Density (H₂O = 1): 0.985	Vapor Pressure (mm Hg @ 68°F): < 1
Material Density Lbs./Gal: 8.20	Solubility in Water: Insoluble
% Volatile Organic Compounds (VOC) by Weight: 0	pH: Not Applicable
VOC: lbs/gal: 0 g/L: 0	Appearance/Odor: Colorless liquid, characteristic odor

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable under the prescribed storage conditions.	Conditions to avoid: Avoid excessive heat, flame sources of ignition. Avoid exposure to high temperatures or direct sunlight.. Keep from freezing.
Hazardous Polymerization: Hazardous exothermic polymerization can occur when heated, or when exposed to direct sunlight.	Materials to avoid: Contact with strong oxidizers, metals or alloys.
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 Data
Teratogen:	No Data
Reproductive Toxicity:	No Data
The toxicological properties are not fully determined. Irritating to eyes and skin, in cases of prolonged contact sensitization can result.	

XII. ECOLOGICAL INFORMATION

Harmful to aquatic organisms. May cause long – term adverse effects in the aquatic environment. As with all chemicals and products, do Not allow to enter drains, sewers or waterways.
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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. Do Not allow run-off to enter drains, sewers or waterways.
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XIV. TRANSPORT INFORMATION

Flammability Classification:	
OSHA:	Class III B
US DOT (Ground):	Not Regulated as Hazardous goods.
UN Number:	Not applicable
ADR/ RID:	Not Regulated as Hazardous goods.
Class:	Not applicable
IMO/ IMDG (Sea):	Not Regulated as Hazardous goods.
Class:	Not applicable
ICAO / IATA (Air):	Not Regulated as Hazardous goods.
Class:	Not applicable

XV. REGULATORY INFORMATION

SARA Title III Section 313:

This material does Not contain any chemical(s) 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 does not 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

Relevant S & R Phrases

Xi: Irritant

R36/37/38: Irritating to eyes, respiratory system and skin

R43: May cause sensitization by skin contact

R 51/53: Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment

S24: Avoid contact with skin

S37: Wear suitable gloves

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

