

Material Safety Data Sheet # 203.19
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Date of preparation: 8/3/2010
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 MSDS #: 203.19

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								
<p>Product Class: UV Curable Lithographic Printing Ink</p> <hr/> <p>Manufacturer's code: Various, including, UV11079, UV11488, UV11926, UV12049, UV13369, UV13770, UV14005, UV14008 to UV14052, UV14059, UV10493, UV14271-2, UV13907- 10,</p>	<p>Manufacturer's code continued: UV14268, UV14276, UV14321, UV14573, UV14716, UV14611, X102977, UV14910, UV14801, UV14264, UV14756-59, I011987, UV15165-68, UV15163, UV15178-81, UV13996, UV15017, UV14021, UV15199, UV15170, UV15215, UV15221, UV15246, X102977, UV15287, UV15351, UV15352, UV15379, UV14271, UV15637, UV15658, UV15659, UV15660, UV15788, etc.</p>								
<p>Trade Name: UV Plastech Inks, 4 Color Process Inks, etc.</p>									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Acrylic ester mixture	Proprietary	20 - 30	Not Established	
Proprietary Mixture	NJTSRN-6000-1620	30-40	Not Established	
1,6 Hexandioldiacrylate EINEC Nr- 235-921-9	13048-33-4	5-15	Not Established	
Ethyl-4-Dimethylamino Benzoate	10287-53-3	1-5	Not Established	
Polyol Acrylate	Proprietary	0-5	Not Established	
Photoinitiators, mixtures	Not available	1-5	ACGIH / PEL 5 mg/ M ³ air 8hr TWA	
2-methyl-14(methilio)phenyl-2-4-morpholviny-1-propanone	71868-10-5	1-5	ACGIH / PEL 5 mg/M ³ air 8hr TWA	
neopentylglycol propoxylated diacrylate	84170-74-1	1-10	Not Established	
<p>Hazard Description: Skin, eye or inhalation irritant Xi, R 36/ 38-43</p>				

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Not expected to be a hazard due to low volatility under standard conditions. Caution should be taken to prevent aerosolization or misting of this product. Inhalation of vapors or mist may cause irritation of respiratory tract. 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. Those known to be sensitized to acrylates should avoid all exposure to this product. Prolonged contact may cause blister formations (burns). Since irritation may not occur immediately, contact can go unnoticed.
Eye Contact: Avoid eye contact. This product is irritating to the eyes upon direct contact. Can cause burning sensation, tearing, swelling and redness. Injury may persist for several days. Exposure to high concentrations of vapors can be irritating to the eyes.
Ingestion: 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

Emergency & First Aid Procedures
Eyes: Immediately flush eyes with large amounts of water and continue flushing for at least 15 minutes. Retract eyelids often. Seek immediate medical attention.
Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water for 15 minutes. Wash skin with mild non abrasive soap. Pay particular attention to hair, nose, ears and other areas not easily cleaned. Do not use solvents for cleaning hands or skin because solvents may increase penetration of the product into the skin. Seek medical attention. Launder contaminated clothing with an alkaline detergent before reusing. Discard all contaminated shoes, belts or other leather goods.
Inhalation: This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. 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. Keep the person warm.
Ingestion: Do not induce vomiting as aspiration risk exceeds poisoning risk. If a person swallows Acrylate products, give lukewarm water (1 pint) only if person is completely conscious and alert . Never give anything by mouth 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
Extinguishing Media: Use water fog, foam, CO ₂ , or dry chemical extinguishing media.		
Special Fire Fighting Procedures: Do not enter fire area without proper protection. Fight fire from a safe distance. Remove all ignition sources. Wear self contained breathing apparatus and complete personal protective gear when entering confined places. Water may be ineffective in firefighting due to low solubility. Use water spray or fog for cooling.		
Unusual Fire & Explosion Hazard: High temperatures, inhibitor depletion, accidental impurities, or		

exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat / 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.

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Remove all ignition sources, as spilled material may polymerize. Move leaking containers to ventilated area. 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. Wash spill area with a strong detergent and water solution; rinse with water, contain and minimize water use during clean-up. Keep spill water from entering drains. Do NOT flush to sewer. Advise water authority if spillage has entered into water course or drainage system.

VII. HANDLING AND STORAGE

Handling and Storage: Wear proper protective clothing and gloves when handling. Store in containers in a cool, well-ventilated area. Do Not store above 38 °C/ 100 °F or excessive cold temperatures, 0 °C/ 32 F. 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. Always wash hands and face with soap and water after handling. Do not use solvents for cleaning hands or skin, as solvents may increase the penetration of the product into the skin.

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: Use impervious synthetic rubber clothing (apron, boots, gloves, etc.) over parts of the body subject to exposure. A barrier cream is recommended to be applied on clean hands before applying gloves, not after exposure. A barrier cream alone is not recommended; as it is not impervious to chemicals. Safety showers are recommended.

Eye: Eye protection is required under conditions of normal use. Wear plastic face shield or splash-proof safety glasses or goggles. Eye wash stations are recommended.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: > 212 F	Vapor Density (Air = 1): < 1
Relative Density (H₂O = 1): 1.33 – 1.60	Vapor Pressure (mm Hg @ 70°F): N/A
Material Density Lbs./Gal: 11.08 – 13.32	Solubility in Water: Insoluble
% Volatile Organic Compounds (VOC) by Weight: < 1	% Solids by Weight: 99.0
VOC: lbs/gal: < 0.13 g/L: < 16.0	Appearance/Odor: Colored paste

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable under normal circumstances and conditions of proper storage.	Conditions to avoid: Excessive heat, 38 °C/ 100 or cold 0 °C/ 32 F. Sources of ignition. Loss of dissolved air or loss of polymerization inhibitor. Contamination of incompatible materials.
Hazardous Polymerization: High temperatures (>38 C/ 100°F) and oxygen deficient atmosphere	Materials to avoid: Contact with strong oxidizing agents, copper, copper alloys, nickel, iron, rust,

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.	carbon steel, strong bases, radical forming initiators. Peroxides, strong alkalies. Direct ultraviolet light and/ or sunlight.
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

XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time. As with all products Do Not allow to enter waterways, sewers, drains etc.
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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. If discarded in its original unused form, this product does NOT exhibit the characteristics of a RCRA hazardous waste as defined under 40CFR261.
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XIV. TRANSPORT INFORMATION

Flammability Classification:	Combustible
OSHA:	Class III B
US DOT (Ground):	Not Dangerous Goods
UN number:	Not applicable
UN Proper Shipping Name:	Not Hazardous
Transport hazard class:	Not applicable
Packing Group:	Not applicable
Environmental hazards	Not applicable:
IMDG (Sea):	Not Regulated
UN number:	Not applicable
UN Proper Shipping Name:	Not Hazardous
Transport hazard class:	Not applicable
Packing Group:	Not applicable
Environmental hazards	Not applicable
Marine Pollutant:	No data available
ICAO/ IATA (Air):	Not Dangerous Goods
UN number:	Not applicable
UN Proper Shipping Name:	Not Hazardous Liquid
Transport hazard class:	Not applicable
Packing Group:	Not applicable
Environmental hazards	Not applicable
National Fire Protection:	IIIB
Harmonized Systems Code (HS):	321590 Other Inks

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 311/312 – Hazard Categories: Pursuant to Section 311/312 of SARA Title III, the physical and health hazard categories for this product are identified below:

Fire Hazard – NO
Sudden Release of Pressure Hazard – NO
Reactivity Hazard – YES
Immediate (acute) Health Hazard – YES
Delayed (chronic) Health 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 may contain a chemical known by the state of California to cause reproductive harm.

<u>Chemical</u>	<u>CAS#</u>	<u>%</u>
Toluene	108-88-3	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.

B

Safety Glasses
Gloves

