

Material Safety Data Sheet # 203.15 B
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200


Date of preparation: 5-29-2013
MSDS#: 203.15 B

I. PRODUCT IDENTIFICATION


<p>Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033</p> <p>Emergency phone: (323) 264-2200</p>	<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>1</td> </tr> <tr> <td>Personal Protection</td> <td>C</td> </tr> </table>	Health	2	Flammability	1	Reactivity	1	Personal Protection	C
Health	2								
Flammability	1								
Reactivity	1								
Personal Protection	C								
<p>Product Class: UV Curable Lithographic Printing Ink</p>	<p>Manufacturer's code: UV14927, UV12264</p>								
<p>Trade Name: UV Uni-Plas Overprint Varnish</p>									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Polyester Acrylate	Proprietary	9.0	Not Established	
Ditrimethylolpropane Tetracrylate	94108-97-1	9.0	Not Established	
EINECS Nr- 302-434-9				
1,6 Hexandioldiacrylate	13048-33-4	7.0	Not Established	Xi, R36/38-43,
315, 317, 319				
EINECS Nr- 235-921-9				
Nonyphenol	25154-52-3	< 0.30	Not Established	
Polyol Acrylate	Proprietary	0.4	Not Established	
Glycerol , propoxylated esters w/ acrylic acid	52408-84-1	< 14.0	Not Established	H319, H317, Xi
EINECS Nr- 500-114-5				
2-Hydroxy-2-methylpropiophenone	7473-98-5	1.5	Not Established	
EINECS Nr- 231-272-0				
2-4.6- Trimethylbenzoyl -Diphenylphosphinoxid	75980-60-8	3.0	Not Established	H361, H412
EINECS Nr-278-355-8				



Health Hazard



Dangerous for the environment

No permissible Exposure Limits (PEL/ TLV) have been established by OSHA or ACGIH

Refer to section 16 for explanation of Hazard & Risk statements.

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Avoid inhalation. Inhalation of mist or vapor may cause irritation or respiratory tract. Acute overexposure may result in irritation of the throat and lungs.
Skin Contact: Avoid skin contact. Contains materials that cause moderate skin injury and/or sensitization. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. May aggravate pre-existing allergies or eczema. Those known to be sensitized to Acrylate should avoid all exposure to this product.
Eye Contact: Avoid contact. Can cause serious eye irritation, resulting in burning sensation, tearing, swelling, and redness. May aggravate pre-existing allergies.
Ingestion: Harmful if swallowed. 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. Retract eyelids often. Seek medical attention.
Skin: Remove contaminated clothing. Wash contaminated area thoroughly 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: 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.
Ingestion: Do not induce vomiting. Seek <u>immediate</u> medical attention. Never give anything by mouth to an unconscious person.
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	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: 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. Does Not use a solid water stream as it scatter and spread the fire	
Unusual Fire & Explosion Hazard: High temperatures and fire conditions may cause rapid and uncontrollable polymerization which can result in explosions and the violent rupture of storage vessels. Avoid the use of a stream of water to control fires since frothing can occur. Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and nitrogen 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. 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. Do NOT flush to sewer, drains or waterways. Harmful to the environment, should not be released into the
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environment.

VII. HANDLING AND STORAGE

Handling and Storage: Wear proper protective clothing and gloves when handling. Store containers in a cool, well-ventilated area. Do Not store above 40 °C/ 104 °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, 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. 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.

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: Wear chemical resistant gloves and protective clothing. 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 – 230 °F	Vapor Density (Air = 1): No Determined
Relative Density (H₂O = 1): 1.15	Vapor Pressure (mm Hg @ 68°F): No Data
Material Density Lbs./Gal: 9.61	Solubility in Water: Insoluble
%Volatiles by Weight: < 0.2	Viscosity: Not determined
VOC: lbs/gal: < 0.019 g/L: 2.3	Appearance/Odor: Lt. Yellow Liquid/ Esterlike odor.

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable under normal circumstances and conditions of proper storage.	Conditions to avoid: Excessive heat, 40°C/ 104 °F 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 (40°C/ 104°F) and oxygen deficient atmosphere reduce inhibitor effectiveness and may cause polymerization, raising the temperature and pressure, possible rupturing the container.	Materials to avoid: Avoid initiators including peroxides; avoid strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust, nickel, cobalt, strong bases.
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

Toxicological information on the regulated components of this product as follows:

Hexamethylene diacrylate 13048-33-4
Oral (Rat) LD50 > 5000 mg/kg
Dermal (Rabbit) LD50 > 3000 mg/kg

Acrylated resin
Oral (Rat) LD50 > 2000 mg/kg
Dermal (Rabbit) > 2000 mg/kg

Glycerol , propoxylated
esters w/ acrylic acid 2408-84-1
Oral (Rat) LD50 > 5000 mg/kg Literature
Irritation of skin / Skin Irr OECD 404 0.6 PII 0-8 (rabbit)
Sensitization: No sensitizing effect

2-hydroxy-2-methyl-1-phenyl-propane 7473-98-5
Acute Oral LD50 1694 mg/kg (Rats) (Rabbits) not an irritant
Acute Dermal LD50 6,930 mg/kg (Rats) (Rabbits) not an irritant

Subchronic Toxicity

The test substance was administered by oral gavage to rats at dosages of 0, 30, 100, 300 and 1,000 mg/kg/ day for 28 days. The target organ was the liver with findings of increased weight at the two highest doses. Histopathologic examination showed cell enlargement and proliferation only at the highest dose. Hematology and clinical chemistry measurements were not conducted. The NOEL appears to be 100 mg/kg/day.

Diphenyl(2,4,6-trimethylbenzyl)phosphinoxid 75980-60-8
EINECS 278-355-8
Oral LD50 > 5000 mg/kg (Rat)
Skin Irr OECD 404 (rabbit)
Eyes Irr OECD 405 (rabbit)

Subchronic Toxicity

In a 90 day study, rats administered this compound by gavage exhibited scale formation of the ears and extremities, body weight reduction, testicular atrophy, increased relative liver and kidney weights and hermatological changes. No adverse effects were noted at the low dose of 100 mg/kg/day. No nervous system effects were noted at any dose.

Hazard Description: Skin, eye or inhalation irritant

XII. ECOLOGICAL INFORMATION

This product contains components that are highly toxic to aquatic organisms. Releases to the environment are to be avoided. As with all chemicals and products, **Do Not** allow to enter waterways, sewers, drains etc.

XIII. DISPOSAL INFORMATION

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 (Ground):	Not Regulated
IMO/ IMDG (Sea):	Not Regulated
IATA/ ICAO (Air):	Not Regulated

Not classified as dangerous in the meaning of transport regulations

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 contains a chemical(s) known by the state of California to cause cancer and/or reproductive harm

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

XVI. OTHER INFORMATION

Hazard & Risk statements

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H361: Suspected of damaging fertility or the unborn child
H412: Harmful to aquatic life with long lasting effects
Xi: Irritant
R 36/ 38-43 Skin, eye or inhalation irritant

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.

C Safety Glasses
Gloves
Apron
Splash Goggles

