



GANS INK
& SUPPLY CO.

Safety Data Sheet

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: IDENTIFICATION

SDS Number: 500, version 2/21/2019

(a) Product identifier

Gans Item ID: UV15546, UV15547, UV15548, UV15549, UV15559, UV15560, UV15561, UV15562, UV15577, UV15578, UV15579, UV15580, UV15619, UV15620, UV15621, UV15626; UV15655, UV15661, UV15661A, UV15664, UV15665, UV15666, UV15667, UV15668, UV15686, UV15686X, UV15711, UV15725, UV15746, UV15792, UV15794, UV15807, UV15808, UV15809, UV15810, UV15725, UV15799, UV15826, UV15827, UV15828, UV15829

UV56-9800, UV58-9800, UV62-9800, UV76-9800, UV76-9801, UV76-9802, UV43-9800, UV49-9800, UV00-9800, UV99-9800, UV00-9801, UV38-9800; UVVL001, UVVL002, UVVL003, UVVL004, UVVL005, UVVL006, UVVL007, UVVL008, UVVL009, UVVL010, UVVL011, UVVL013; **Vinylcure LED Pantone Reference Color: Where # is any whole number from 0 to 9:** UVVL##, UVVL###, UVVL####

UVXL001, UVXL002, UVXL003, UVXL004, UVXL005, UVXL006, UVXL007, UVXL008, UVXL009, UVXL010, UVXL011, UVXL013, UVXL021, UVXL072; **Vinylcure XLT Pantone Reference Color: Where # is any whole number from 0 to 9:** UVXL##, UVXL###, UVXL####

UV15816, UV15817, UV15837; UV15868, UV15869, UV15870, UV15871, UV15888, UV15889, UV15890, UV15891, UV15892, UV16329, UV16381

UVV871, UVV872, UVV873, UVV874, UVV875, UVV876

UV15926, UV15927, UV15928, UV15929, UV15930, UV15931, UV15932, UV11491, UV11593, UV11594, UV11595, UV11596, UV11597, UV11598, UV12827, UV14787, UV14928, UV15897, UV11184, UV11185, UV11186, UV11187, UV15734, UV15822, UV12572, UV15879, UV16040, UV16041, UV16198, UV16206, UV16267, UV14825, UV10484, UV14815, UV15792, UV16520, UV16521, UV16522, UV14611, UV16444, UV15248, UV16529, UV16535, UV16536, UV16541, UV16542, UV16543, UV16546, UV15673, UV15674, UV15675, UV12954, UV15743, UV15776

Gans Description: Vinylcure LED, process and mixing colors, Pantone and custom colors; Vinylcure XLT, Vinylcure XLT Special, Vinylcure XLT Mixing, No Lam LED, UV M/IQ LAM, OS UV Vinylcure P87# (metallic), Vinylcure XLT Hepta, OS Vinyl, OS Vinylcure

(b) Other means of identification

General description: UV-curing, lithographic printing ink

(c) Recommended use

Product Use: Industrial use only; printing ink for use on lithographic printing press equipped with UV curing lamps.

Restrictions on use: Not for residential use.

(d) Supplier's details

Manufacturer: Gans Ink and Supply Co, Inc.
Address: 1441 Boyd Street
Los Angeles, CA 90033
Contact Person: Marco Ramos
Telephone: 323- 264-2200 x139
Email: MSDS@gansink.com

(e) Emergency telephone numbers:

Chemical spill or physical hazard: Contact the Local Emergency Response Agency 9-1-1, or the Local Fire Department
Ingestion or health hazard: Contact the National Capital Poison Center, Poison Control: 800 222-1222; Poison.org

SECTION 2: HAZARD(S) IDENTIFICATION

(a) Classification

This mixture is hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

Physical hazards: Not classified as hazardous

Health hazards:

- Eye Irritation – Category 2A
- Skin Irritation – Category 2
- Skin Sensitization - Category 1
- Toxic to Reproduction – Category 1B
- Specific Target Organ Toxicity Single Exposure (STOT SE), Respiratory Tract Irritation – Category 3
- Specific Target Organ Toxicity, Repeat Exposure – Category 2

Environmental hazards:

- Hazardous to the Aquatic Environment, Acute – Category 2
- Hazardous to the Aquatic Environment, Chronic – Category 2

(b) Label elements

Signal Word: Warning

Hazard Statements:

Causes serious eye irritation; Causes skin irritation. May cause an allergic skin reaction; Suspected of damaging fertility or the unborn child; May cause respiratory irritation; May cause damage to organs <...> through prolonged or repeated exposure <<oral>>; Toxic to aquatic life; Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection, face protection. Wash hands thoroughly after handling.

Do not breathe fume/mist/ vapors/spray. Contaminated work clothing must not be allowed out of the workplace.
Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response:

IF EXPOSED OR CONCERNED: Get medical advice/attention. Get medical advice/attention if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water and mild soap, and or waterless hand cleaner. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

Avoid release to the environment. Collect spillage.

Storage: Store locked up. Store in a well-ventilated place; Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard Pictograms:



(c) Hazards not otherwise classified

None known

(d) Ingredients of unknown acute toxicity

NA

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

TS = Trade Secret (as specified by substance manufacturer)

Substance	CAS #	Conc. min.	Conc. max.
2-propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol]	72162-39-1	0.0%	33.8%
Acrylated resin	TS	0.0%	22.1%
Polyester Acrylate	TS	0.0%	16.5%
2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	94108-97-1	0.0%	16.5%
Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid	84170-74-1	0.0%	13.0%
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	0.0%	10.9%
Vinylester Resin	TS	0.0%	7.2%
Pentaerythritol, ethoxylated, esters with acrylic acid	51728-26-8	0.0%	6.0%
Glycerol propoxylate triacrylate	TS	0.0%	6.0%
Gans UVP-2002	TS	0.0%	5.5%
Reactive tertiary amine	TS	0.0%	5.0%
Gans UVP-2013	TS	0.0%	3.7%
2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate; 2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	0.0%	2.0%
Gans UVP-2011	TS	0.0%	1.5%
Inhibitor	TS	0.0%	0.9%
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	0.0%	0.5%

SECTION 4: FIRST AID MEASURES

(a) Description of first aid measures:

Inhalation: If inhaled: Remove person to fresh air and keep comfortable for breathing.

Skin contact: If on skin: Wash with plenty of water and mild soap, and or waterless hand cleaner. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.

Eye contact: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth. Get medical advice/attention if you feel unwell.

(b) Most important symptoms and effects, both acute and delayed:

Inhalation: May cause respiratory irritation

Skin contact: Causes skin irritation. May cause an allergic skin reaction

Eye contact: Causes serious eye irritation

Ingestion: Suspected of damaging fertility or the unborn child; May cause damage to organs <...> through prolonged or repeated exposure <<oral>>;

(c) Indication of any immediate medical attention and special treatment needed:

Symptoms such as dizziness or loss of breath, and burning or pain to eyes or skin may indicate exposure and the need for first aid.

SECTION 5: FIRE – FIGHTING MEASURES

(a) Extinguishing Media:

Suitable extinguishing media: Use CO₂, dry chemical, fire-fighting foam, or water fog extinguishing media

Unsuitable extinguishing media: Do not use water stream. Water stream or spray is OK to cool containers only.

(b) Special hazards arising from the substance or mixture: Thermal decomposition or combustion products may include CO_x, and NO_x. High pressure may build up in heated containers.

(c) Special protective equipment and precautions for fire-fighters: Wear NIOSH approved self-contained respiratory protective device, and fully protective fire-fighting suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

(a.i) Personal precautions:

Do not handle until all safety precautions have been read and understood. No smoking or other sources of ignition near spillage. Avoid direct contact with spilled material. Wear all Personal Protection listed in Section 8 before directly contacting spilled material. Ensure there is adequate area ventilation, and avoid excessive inhalation of fumes.

(a.ii) Protective equipment: See Section 8

(a.iii) Emergency procedures: If dangerous conditions exist, contact emergency response personnel, follow emergency procedures, and contact emergency response authorities. Collect spillage.

(b) Methods for containment and cleaning up:

If it is safe to do so, adjust leaking containers to reduce or eliminate the continued release. Wear all Personal Protection listed in Section 8 before directly contacting spilled material. For high viscosity materials, scoop or shovel material into appropriate container for reuse, recycling, or disposal. For low viscosity materials, first surround and then cover spilled material with inert absorbent (vermiculite, or similar). Then scoop or shovel material into appropriate container for reuse, recycling, or disposal.

Residual material can be cleaned with UV blanket wash, acetone, or other press solvent. Consult your company's spill procedure for details of regulatory restrictions and recommendations. Do not allow spilled materials, or clean up materials to enter storm drains or natural water ways.

SECTION 7: HANDLING AND STORAGE

(a) Precautions for safe handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection. Wash hands thoroughly after handling.

Do not breathe fume/mist/ vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

(b) Conditions for safe storage:

Store in original container and keep containers covered and sealed. Store in cool, dry, well-ventilated place. Appropriate storage temperature is approximately 7° - 35° C (45° - 95° F).

Incompatibilities: Avoid contact with heat, sources of ignition, sunlight, and strong oxidizers.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

(a) Permissible exposure limits		OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH 2015 TVL
Substance	CAS #	ppm	mg/m ³	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
No data available						

No listed hazardous ingredients appear on OSHA Annotated Tables Z-1, Z-2, or Z-3.

(b) Appropriate engineering controls:

Ventilation requirements: Adequate ventilation in accordance with good engineering practice must be provided.

General protective measures: Ensure that eye flushing /eye wash stations, and hand washing areas are accessible.

(c) Personal protective equipment:

Inhalation: Do not breathe fume/mist/ vapors/spray. Where mist or aerosol is present, an organic vapor respirator is recommended.

Skin Contact: Wear protective gloves/protective clothing. Contaminated work clothing must not be allowed out of the workplace. Neoprene or nitrile gloves are recommended. PVC gloves are not compatible. Always wear long sleeves and where exposure potential is high, a neoprene or other chemical resistant apron is recommended.

Eye Contact: Wear eye protection/face protection. Eye and face protective devices must comply with ANSI Z87.1-1989. Recommended eye protection: goggles, flexible fitting, hooded ventilation. A transparent face shield is recommended.

Ingestion: Avoid eating, drinking, or smoking in work area and wash hands after handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance (physical state, color): Viscous paste or liquid, various colors

- (b) **Odor:** Ester-like
(c) **Odor threshold:** Data not available
(d) **pH:** Data not available
(e) **Melting point/ freezing point:** Data not available
(f) **Initial Boiling point / Range:** Data not available
(g) **Flashpoint:** > 212 °F (> 100 °C)
(h) **Evaporation Rate:** Data not available
(i) **Flammability (solid/ gas):** Not classified as flammable/ Not classified as flammable
(j) **Upper/ lower flammability explosion limits:** Data not available
(k) **Vapor Pressure (mm Hg @ 68°F):** Data not available
(l) **Vapor Density (Air = 1):** Data not available
(m) **Relative Density (H₂O = 1):** 1.02
(n) **Solubility:** insoluble in water
(o) **Partition coefficient n- Octanol/ Water:** Data not available
(p) **Auto-ignition temperature:** Data not available
(q) **Decomposition temperature:** Data not available
(r) **Viscosity:** Data not available

Other properties

VOC % (wt): ≤ 1.0

VOC (lbs./gal): ≤ 0.11

SECTION 10: STABILITY AND REACTIVITY INFORMATION

- a) **Reactivity:** Not reactive under normal storage conditions. See Section 7. Mixture will undergo polymerization reaction in the presence of sunlight, bright industrial lights, or high temperatures.
(b) **Chemical stability:** Mixture is chemically stable under normal storage and handling conditions, and under normal temperatures and pressures.
(c) **Possibility of hazardous reactions:** Exposure to excess heat may cause exothermic polymerization reaction.
(d) **Conditions to avoid:** Avoid contact with heat (temperature > 100° F, 38° C), sources of ignition, sunlight, and strong oxidizers.
(e) **Incompatible materials:** Radical forming initiators, peroxides or other strong oxidizers, strong alkalies or reactive metals.
(f) **Hazardous decomposition product:** No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

(a) Likely routes of exposure: Skin contact, eye contact, inhalation, ingestion

(b) Symptoms related to physical, chemical, and toxicological characteristics:

Skin contact: Causes skin irritation. May cause an allergic skin reaction; There may be irritation and redness at site of contact.

Eye contact: Causes serious eye irritation; There may be irritation and redness. Eyes may water profusely.

Inhalation: May cause respiratory irritation; There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Ingestion: Suspected of damaging fertility or the unborn child; May cause damage to organs <...> through prolonged or repeated exposure <<oral>>; There may be irritation and redness of the mouth and throat, and a feeling of illness.

(c) Delayed and immediate effects, and chronic effects from long-term exposure

No data available

(d) Numerical measures of toxicity:

Substance	CAS #	Oral	Inhalation	Dermal
2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-...	72162-39-1	Data not available	Data not available	Data not available
Acrylated resin	TS	Rat, acute LD50 > 2000 mg/kg	Rat, acute LC50, 4 hr. >5 mg/L mist	Rabbit, acute LD50 >2000 mg/kg
Polyester acrylate	TS	Data not available	Data not available	Data not available
2-[[2,2-bis[[1-(1-oxoallyl)]...	94108-97-1	Data not available	Data not available	Data not available
Esterification product of poly[oxy(methyl-1,2-ethanediyl)]...	84170-74-1	LD50 5000 mg/kg bw (rat)	LC50 (4 h) 2 mg/L air (rat)	LD50 2000 mg/kg bw (rat)
Glycerol, propoxylated, esters with acrylic	52408-84-1	LD50 2000 mg/kg bw (rat)	No data	LD50 2000 mg/kg bw (rabbit)
Vinylester Resin	TS	Data not available	Data not available	Data not available
Pentaerythritol, ethoxylated, esters with acrylic acid	51728-26-8	LD50 2000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rat)
Glycerol propoxylate triacrylate	TS	Data not available	Data not available	Data not available
Gans UVP-2002	TS	LD50 1340 - 2756 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rat)
Reactive tertiary amine	TS	Rat, acute LD50 > 2000 mg/kg	Data not available	Rabbit, acute LC50 > 2000 mg/kg
Photo initiator, Gans UVP-2044	TS	LD50 2000 mg/kg bw (rat)	Data not available	Data not available
Gans UVP-2013	TS	LD50 1470 mg/kg bw (rat)	Data not available	Data not available
2-ethyl-2-[[1-(1-oxoallyl)oxy]methyl]...	15625-89-5	LD50 5000 mg/kg bw (rat)	LC50 (6 h) 550 mg/m ³ air (rat)	LD50 4.7 mL/kg bw (rabbit)
Gans UVP-2011	TS	D50 5000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rat)
Epoxy acrylate oligomer	TS	Data not available	Data not available	Data not available
Inhibitor	TS	Data not available	Data not available	Data not available
4,4'-Isopropylidenediphenol, oligomeric reaction products...	55818-57-0	LD0 2000 mg/kg bw (rat)	Data not available	LD0 2000 mg/kg bw (rat)

(e) Carcinogens information:

IARC; Group 1 (Carcinogenic to humans), Group 2A (Probably carcinogenic to humans), or Group 2B (Possibly carcinogenic to humans) by IARC: This mixture does not contain listed materials.

NTP; 13th Report on Carcinogens: This mixture does not contain listed materials.

OSHA: This mixture does not contain listed materials.

SECTION 12: ECOLOGICAL INFORMATION**(a) Ecotoxicity****Classification of mixture:**

- Hazardous to the Aquatic Environment, Acute – Category 2
- Hazardous to the Aquatic Environment, Chronic – Category 2

(b) Persistence and degradability: No data available

(c) Bioaccumulative potential: No data available.

(d) Mobility in soil: No data available

(e) Other adverse effects: No known adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local/regional/national regulations.
This product does **NOT** exhibit the characteristics of a RCRA hazardous waste as defined under 40CFR261.

SECTION 14: TRANSPORT INFORMATION

US DOT (Ground):

- (a) UN number: UN3082
(b) UN Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
(c) Transport hazard class: 9
(d) Packing Group: III
(e) Environmental hazards: Marine Pollutant
(f) Transport in bulk
MARPOL 73/78:
IBC:
(g) Special Precautions: None known
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SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Section 8(b) Inventory Status: All ingredients in this mixture are listed on the TSCA Chemical Inventory, or are not required to be listed.

EPCRA, Section 302 – Extremely hazardous substances: This mixture does not contain listed materials.

CERCLA Hazardous Substances: This mixture does not contain listed materials.

EPCRA Section 313 Toxic Chemicals: This mixture does not contain listed materials.

CAA 112(r) Regulated Chemicals for Accidental Release Prevention: This mixture does not contain listed materials.

Hazardous Air Pollutants (HAP): This mixture does not contain listed materials.

U.S. State Regulations

California Proposition 65: This mixture does not contain listed materials.

Oregon DEQ List of Air Toxic Contaminants: This mixture does not contain listed materials.

Canadian Environmental Protection Act:

WHMIS Classification: No data available

European Chemical Agency (ECHA)

Candidate List of Substances of Very High Concern (SoVHC), including 27 June 2018 update: This mixture does not contain listed materials.

SECTION 16: 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.