



GANS INK
& SUPPLY CO.

Safety Data Sheet

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

SECTION 1: IDENTIFICATION

SDS Number: 514, version 7/5/2018

(a) Product identifier

Gans Item ID: UV15689, UV15690X, UV15691, UV15692, UV15766, UV15998, UV15800, UV16221 UV16222, UV16223, UV00-9200, UV00-9201, UV38-9200, UV38-9201, UV43-9200, UV49-9200, UV56-9200, UV58-9200, UV76-9200, UV76-9201, UV76-9202, UV99-9200; UVL001, UVL002, UVL003, UVL004, UVL005, UVL006, UVL007, UVL008, UVL009, UVL010, UVL011, UVL013 M018110; **UV Low Zone Pantone Reference Color: Where # is any whole number from 0 to 9:**
UVL###, UVL####U
UVL####, UVL####U

Gans Description: Low-Zone XL process, UV Low-Zone, UV Low Zone

(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 number:

Available only during business hours.

(323) 264-2200 Monday- Friday 7:00 A.M. – 9:00 P.M.

24 Hours Response: Los Angeles County Fire Department / HazMat. Department

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:**
 - Skin Corrosion – Category 1
 - Eye Damage/Irritation – Category 1
 - Sensitization, Skin – Category 1

- Germ Cell Mutagenicity – Category 2
- Carcinogenicity – Category 1B
- Toxic to Reproduction – Category 1B
- Specific Target Organ Toxicity (Respiratory tract), Single Exposure – Category 3

(b) Label elements

Signal Word: Danger

Hazard Statements:

Causes severe skin burns and eye damage; Causes serious eye damage; May cause an allergic skin reaction; May cause respiratory irritation; Suspected of causing genetic defects; May cause cancer; May damage fertility or the unborn child.

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. Do not breathe dusts or mists. Wash contaminated areas thoroughly after handling. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Use only outdoors or in a well-ventilated area.

Response:

If exposed or concerned: Get medical advice/attention.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor.

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 # (TS= Trade Secret)	Conc. min.	Conc. max.
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	0.0%	30.7%
Pigment Violet 3	67989-22-4	0.0%	20.0%
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	0.0%	18.7%
Polyester Acrylate (Gans UVO-1077)	TS	0.0%	11.8%
2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	94108-97-1	0.0%	11.8%
Aromatic urethane acrylate (Gans UVO-1020)	TS	0.0%	11.2%
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	0.0%	8.0%
2,2-bis[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	4986-89-4	0.0%	7.2%
2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	15625-89-5	0.0%	6.5%
Pentaerythritol, ethoxylated, esters with acrylic acid	51728-26-8	0.0%	6.5%
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 monomer (Gans UVO-1044)	84170-74-1	0.0%	5.9%
Gans UVP-2005	TS	0.0%	5.0%
2,6-di-tert-butyl-p-cresol	128-37-0	0.0%	4.5%
Gans UVP-2011	TS	0.0%	4.5%
Gans UVP-2007	TS	0.0%	4.0%
Glycerol propoxylate triacrylate (Gans UVM-3004)	TS	0.0%	4.0%
Gans UVP-2002	TS	0.0%	3.5%
Rosin	8050-09-7'	0.0%	3.0%
Gans UVP-2035	TS	0.0%	3.0%
Polyester Acrylate (Gans UVO-1044)	TS	0.0%	2.8%
Dodecyl acrylate	2156-97-0	0.0%	1.9%
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5	0.0%	1.9%
2-(hydroxymethyl)-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	222-540-8	0.0%	1.6%
(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	40220-08-4	0.0%	1.3%
EPOXY ACRYLATE OLIGOMER (Gans OVI-5001)	TS	0.0%	0.7%
Tris(N-hydroxy-N-nitrosophenylaminato-O,O')aluminium	15305-07-4	0.0%	0.5%
Gans UVP-2008	TS	0.0%	0.5%
2,6-bis(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one	7078-98-0	0.0%	0.5%
2-ethylhexanoic acid	149-57-5	0.0%	0.4%
Pigment (Gans UVC-6015)	TS	0.0%	0.2%
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2	0.0%	0.1%
acrylic acid	79-10-7	0.0%	0.1%
4-methoxyphenol	150-76-5	0.0%	0.1%
hydroquinone	123-31-9	0.0%	0.1%

SECTION 4: FIRST AID MEASURES

(a) Description of first aid measures:

If exposed or concerned: Get medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

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

Ingestion: Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child.

Inhalation: May cause respiratory irritation.

Skin contact: Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Eye contact: Causes severe skin burns and eye damage. Causes serious eye damage.

(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.

(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:

Wear protective gloves.

Wear eye protection and face protection.

Wear protective clothing.

Wash hands thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace.

Do not breathe dusts or mists.

Use only outdoors or in a well-ventilated area.

(b) Conditions for safe storage:

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

Store in original container.

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
hydroquinone	123-31-9		2	2 mg/m ³	(C) 2 mg/m ³ [15-min]	1 mg/m ³

No other 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 dusts or mists, vapors, spray. 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: Do not eat, drink, or smoke 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):** 1.30, calculated average
- (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: ≤ 0.11 lbs./gal; ≤ 13 g/L average

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 alkalis 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: There may be irritation and redness at site of contact.

Eye contact: There may be irritation and redness. Eyes may water profusely.

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

Ingestion: 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

Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child.

(d) Numerical measures of toxicity:

Substance (list includes only ingredients for which data is available on ECHA website)	CAS # (TS= Trade Secret)	Oral	Inhalation	Dermal
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	LD50 2000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rabbit)
2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	94108-97-1	LD50 5000 mg/kg bw (rat)	Data not available	Data not available
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	LD50 2000 - 5000 mg/kg bw (rat)	LC0 (7 h) 545 – 410,000 µg/m ³ air (rat)	LD50 2000 - 3650 mg/kg bw (rabbit)
2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	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)
Pentaerythritol, ethoxylated, esters with acrylic acid	51728-26-8	LD50 2000 mg/kg bw (rat) [Data not available	LD50 2000 mg/kg bw (rat)
Esterfication 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	LD50 5000 mg/kg bw (rat)	LC50 (4 h) 2 mg/L air (rat)	LD50 2000 mg/kg bw (rat)
Gans UVP-2005	TS	LD50 1 694 mg/kg bw (rat)	Data not available	LD50 6929 mg/kg bw (rat)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	LD0 2000 mg/kg bw (rat)	Data not available	LD0 2000 mg/kg bw (rat)
2,6-di-tert-butyl-p-cresol	128-37-0	LD50 2930 - 6000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rat)
Gans UVP-2007	TS	LD50 1694 mg/kg bw (rat)	Data not available	LD50 6929 mg/kg bw (rat)
Gans UVP-2002	TS	Data not available	Data not available	Data not available
Rosin	8050-09-7	LD50 2000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rat)
Gans UVP-2035	TS	LD50 5 000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rat)
2-ethylhexanoic acid	149-57-5	LD50 2043 mg/kg bw (rat)	LC0 (8 h) 110 mg/m ³ air (rat)	LD50 2000 mg/kg bw (rat)
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2	LD50 420 - 620 mg/kg bw (rat)	Data not available	Discriminating dose 2000 mg/kg bw (rabbit)
acrylic acid	79-10-7	LD50 146 - 1500 mg/kg bw (rat)	LC50 (4 h) 5.1 mg/L air (rat)	LD50 2 000 mg/kg bw (rabbit)
hydroquinone	123-31-9	LD50 367.3 - 375 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rabbit)
4-methoxyphenol	150-76-5	Data not available	Data not available	LD50 2 000 mg/kg bw (rat)
Dodecyl acrylate	2156-97-0	LD50 5570 mg/kg bw (rat)	LC50 (6 h) 690 mg/m ³ air (rat)	LD50 5000 mg/kg bw (rat)
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5	LD50 2000 mg/kg bw (rat)	Data not available	LD50 13,200 mg/kg bw (rabbit)
2,6-bis(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one	7078-98-0	LD50 5000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rabbit)

(e) Carcinogens information: No ingredients in this mixture are known to be listed by the National Toxicology Program (NTP) Report on Carcinogens, or have been found to be potential carcinogens in the International Agency for Research on Cancer (IARC), or by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

(a) Ecotoxicity

Classification of mixture: Not classified as Hazardous

(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, but contains the following RCRA controlled ingredient ($\leq 0.1\%$ wt.):

- acrylic acid CAS 79-10-7: U008

SECTION 14: TRANSPORT INFORMATION

US DOT (Ground):

- (a) UN number:** Not regulated as hazardous
- (b) UN Proper Shipping Name:** Not regulated as hazardous
- (c) Transport hazard class:** Not regulated as hazardous
- (d) Packing Group:** Not regulated as hazardous
- (e) Environmental hazards:** Not regulated as hazardous
- (f) Transport in bulk**
- MARPOL 73/78:**
- IBC:**
- (g) Special Precautions:** None known

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Section 8(b) Inventory Status: All ingredients of this mixture are listed on the TSCA Inventory

EPCRA, Section 302 – Extremely hazardous substances:

- Hydroquinone CAS 123-31-9: (EHS) TPQ = 500/10,000

CERCLA Hazardous Substances:

- acrylic acid CAS 79-10-7: RQ = 5000
- Hydroquinone CAS 123-31-9: RQ = 100

EPCRA Section 313 Toxic Chemicals:

- acrylic acid CAS 79-10-7
- Hydroquinone CAS 123-31-9

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.

New Jersey Right To Know

- 2,6-di-tert-butyl-p-cresol CAS 128-37-0
- 2-ethylhexanoic acid CAS 149-57-5
- acrylic acid CAS 79-10-7
- 2-ethylhexanoic acid CAS 149-57-5

Pennsylvania Right to Know:

- acrylic acid CAS 79-10-7
- 2,6-di-tert-butyl-p-cresol CAS 128-37-0

International Regulations:

Canadian Environmental Protection Act: Data not available

European Chemical Agency (ECHA):

Substances of Very High Concern (SVHC): 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.