



GANS INK
& SUPPLY CO.

Safety Data Sheet

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

SECTION 1: IDENTIFICATION

SDS Number: 517, version 12-11-17

(a) Product identifier

Gans Item ID: UV11604, UV13996, UV14913, UV14914, UV14635

Gans Description: OS Vinyl 1/D OPQ White, OS Vinyl 2/D OPQ White, OS Vinlycure MT Tint Base, Plastech Spec. OP. White, OS Vinyl OPQ White 2/D

(b) Other means of identification

General description: Lithographic printing inks, UV-cure, white

(c) Recommended use

Product Use: Industrial use only

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
- **Health hazards:**
 - Skin Irritation – Category 2
 - Eye Damage/Irritation – Category 1
 - Sensitization, Skin – Category 1
 - Toxic to Reproduction – Category 1B

(b) Label elements

Signal Word: Danger

Hazard Statements: Causes skin irritation; Causes serious eye damage; May cause an allergic skin reaction; 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.

Avoid breathing mists, vapors, spray. Wash contaminated areas thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response:

If exposed or concerned: Get medical advice/attention.

IF SWALLOWED: If exposed or concerned: Get medical advice/attention.

IF INHALED: Not classified as hazardous.

IF ON SKIN (OR HAIR): Wash with plenty of water and mild soap. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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.

Storage: Store locked up.

Disposal: Dispose of contents/container to disposal recycling center. Waste management should be in full compliance with federal, state and local laws.

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. (wt. %) | Conc. max. (wt. %) |
|---|----------------------------------|---------------------------|---------------------------|
| 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% | 15.8% |
| Gans UVP-2005 | TS | 0.0% | 7.6% |
| Pentaerythritol, ethoxylated, esters with acrylic acid | 51728-26-8 | 0.0% | 5.9% |
| Gans UVO-1077 | TS | 0.0% | 5.5% |
| 2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate | 94108-97-1 | 0.0% | 5.5% |
| Hexamethylene diacrylate | 13048-33-4 | 0.0% | 4.7% |
| 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% | 3.5% |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | 55818-57-0 | 0.3% | 1.7% |
| Monomer | TS | 0.0% | 1.6% |
| 2-Propenoic acid, reaction products with pentaerythritol | 1245638-61-2 | 0.0% | 1.1% |
| Polyester Acrylate | TS | 0.0% | 0.8% |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | 0.5% | 0.7% |
| Gans UVP-2002 | TS | 0.0% | 0.4% |
| 2-hydroxyethyl acrylate | 818-61-1 | 0.0% | 0.2% |
| 2-ethylhexanoic acid | 149-57-5 | 0.0% | 0.1% |
| Tris(N-hydroxy-N-nitrosophenylamino-O,O')aluminium | 15305-07-4 | 0.0% | 0.1% |

SECTION 4: FIRST AID MEASURES**(a) Description of first aid measures:****Inhalation:** Data not available.**Skin contact:** Wash with plenty of water and mild soap. If skin irritation or rash occurs: Get medical advice/attention. 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.**Ingestion:** If exposed or concerned: Get medical advice/attention.**(b) Most important symptoms and effects, both acute and delayed:****Ingestion:** May damage fertility or the unborn child**Inhalation:** Data not available**Skin contact:** Causes skin irritation; May cause an allergic skin reaction**Eye contact:** Causes serious eye damage

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

Symptoms such as 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 unopened 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:

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing mists, vapors, spray. Wash contaminated areas thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

(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:

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. Avoid breathing, mists, vapors, spray. Wash contaminated areas thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

(b) Conditions for safe storage:

Store locked up.

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

| <u>(a) Permissible exposure limits</u> | | 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 hazardous ingredients in this mixture 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: Avoid breathing mists, 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, white color

(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) estimated

(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):** Data not available
 (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): ≤ 0.09

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
 Eye contact: Causes serious eye damage
 Inhalation: Data not available
 Ingestion: May damage fertility or the unborn child

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

May damage fertility or the unborn child.

(d) Numerical measures of toxicity, acute:

| Substance | CAS # (TS= trade secret) | Oral | Inhalation | Dermal |
|--|-----------------------------|--------------------------|---|------------------------------|
| 2-propenoic acid, ... | 72162-39-1 | Data not available | Data not available | Data not available |
| Gans UVP-2005 | TS | LD50 1694 mg/kg bw (rat) | Data not available | LD50 6929 mg/kg bw (rat) |
| Pentaerythritol, ethoxylated, esters with acrylic acid | 51728-26-8 | LD50 2000 mg/kg bw (rat) | Data not available | LD50 2000 mg/kg bw (rat) |
| Gans UVO-1077 | TS | Data not available | Data not available | Data not available |
| 2-[[2,2-bis[[[1-oxoallyl]... | 94108-97-1 | LD50 5000 mg/kg bw (rat) | Data not available | Data not available |
| Hexamethylene diacrylate | 13048-33-4 | LD50 5000 mg/kg bw (rat) | LC0 (7 h) 410 mg/m ³ air (rat) | LD50 3 650 mg/kg bw (rabbit) |
| Esterification product ... | 84170-74-1 | LD50 5000 mg/kg bw (rat) | LC50 (4 h) 2 mg/L air (rat) | LD50 2000 mg/kg bw (rat) |
| 4,4'-Isopropylidenediphenol... | 55818-57-0 | LD0 2000 mg/kg bw (rat) | Data not available | LD0 2000 mg/kg bw (rat) |
| Monomer | TS | Data not available | Data not available | Data not available |

| Substance | CAS # (TS= trade secret) | Oral | Inhalation | Dermal |
|--|-----------------------------|----------------------------------|---|--|
| 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) |
| Polyester Acrylate | TS | Data not available | Data not available | Data not available |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | LD50 2000 mg/kg bw (rat) | Data not available | LD50 2000 mg/kg bw (rabbit) |
| Gans UVP-2002 | TS | LD50 1 340 - 2756 mg/kg bw (rat) | Data not available | LD50 2000 mg/kg bw (rat) |
| 2-hydroxyethyl acrylate | 818-61-1 | LD50 540 mg/kg bw (rat) | Data not available | LD50 1 000 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) |
| Tris(N-hydroxy-N-nitrosophenylamino-O,O')aluminium | 15305-07-4 | LD50 cut-off 500 mg/kg bw (rat) | Data not available | Data not available |

(e) Carcinogens information:

IARC, Group 1 (Carcinogenic to humans), Group 2A (Probably carcinogenic to humans), or Group 2B (Possibly carcinogenic to humans): 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: 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. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

SECTION 14: TRANSPORT INFORMATION

US DOT (Ground): Not classified as dangerous

(a) UN number: Not classified as dangerous

(b) UN Proper Shipping Name: Not classified as dangerous

(c) Transport hazard class: Not classified as dangerous

(d) Packing Group: Not classified as dangerous

(e) Environmental hazards: Not classified as dangerous

(f) Transport in bulk

MARPOL 73/78: No data available

IBC: No data available.

(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: 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

Pennsylvania Right to Know: This mixture does not contain listed materials.

- 2-hydroxyethyl acrylate CAS 818-61-1

New Jersey Right to Know:

- 2-hydroxyethyl acrylate CAS 818-61-1
- 2-ethylhexanoic acid CAS 149-57-5

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

Canadian Environmental Protection Act:

WHMIS Classification: No data available

European Chemical Agency (ECHA): 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.