



GANS INK
& SUPPLY CO.

Safety Data Sheet

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

SECTION 1: IDENTIFICATION

SDS Number: 516, version 9-7-18

(a) Product identifier

Gans Item ID: UV00-9520, UV14594, UV14595, UV14596, UV14597, UV15898, UV15899, UV15900, UV15901, UV15902, UV15903, UV15904, UV15905, UV16025, UV16063, UV16064, UV16065, UV16066, UV16104, UV16105, UV16106, UV16107, UV16391

Gans Description: Plastick MQ, UVCard VCT, Plastech Clear Tint Base, Plastech Mixing Clear Tint

(b) Other means of identification

General description: Lithographic printing inks, UV-cure

(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 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

Health hazards:

- Skin Corrosion – Category 1B
- Eye Damage/Irritation – Category 1
- Sensitization, Skin – Category 1B
- Toxic to Reproduction – Category 1B
- Hazardous to the Aquatic Environment, Acute – Category 2

Environmental hazards:

- Hazardous to the Aquatic Environment, Chronic – Category 2

(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 damage fertility or the unborn child. 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. Do not breathe dust, mists, vapors, spray. Wash contaminated areas thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment

Response:

If exposed or concerned: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If exposed or concerned: Get medical advice/attention.

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

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

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. %) |
|---|----------------------------------|---------------------------|---------------------------|
| Acrylated resin | TS | 17.5% | 19.8% |
| Monomer | TS | 5.8% | 9.8% |
| 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% | 7.8% |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | 55818-57-0 | 4.4% | 7.6% |
| 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 | 3.5% | 7.5% |
| Polyester Acrylate | TS | 2.9% | 4.9% |
| Pentaerythritol, ethoxylated, esters with acrylic acid | 51728-26-8 | 0.0% | 4.0% |
| Gans Photoinitiator UVP-2002 | TS | 0.0% | 2.0% |
| Gans Photoinitiator UVP-2011 | TS | 0.0% | 2.0% |
| Gans Photoinitiator UVP-2005 | TS | 0.0% | 2.0% |
| 2-ethylhexanoic acid | 149-57-5 | 0.4% | 0.7% |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | 0.15% | 0.6% |
| Gans Photoinitiator UVP-2008 | TS | 0.0% | 0.5% |
| Proprietary UVI-5001 | TS | 0.25% | 0.4% |
| Rosin | 8050-09-7' | 0.0% | 0.2% |
| Mequinol | 150-76-5 | 0.0% | 0.1% |

SECTION 4: FIRST AID MEASURES**(a) Description of first aid measures:****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 with plenty of water and mild soap. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention**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:** Rinse mouth. Do NOT induce vomiting. 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 severe skin burns and eye damage. 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. Do not breathe dust, mists, vapors, spray. Wash contaminated areas thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment

(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. Do not breathe dust, mists, vapors, spray. Wash contaminated areas thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment

(b) Conditions for safe storage:

Store locked up. 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 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: Do not breathe dust, 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, 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):** 1.14 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 (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 severe skin burns and eye damage. May cause an allergic skin reaction.
 - Eye contact:** Causes serious eye damage.
 - Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
 - 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 |
|--|--------------------------|---------------------------------|-----------------------------|---------------------------|
| Acrylated resin | TS | Data not available | Data not available | Data not available |
| Monomer | TS | Data not available | Data not available | Data not available |
| 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) |
| esters with acrylic acid | 55818-57-0 | LD0 2000 mg/kg bw (rat) | Data not available | LD0 2000 mg/kg bw (rat) |
| Polyester Acrylate | TS | Data not available | Data not available | Data not available |
| Pentaerythritol, ethoxylated, esters with acrylic acid | 51728-26-8 | LD0 2000 mg/kg bw (rat) | Data not available | LD0 2000 mg/kg bw (rat) |
| 2-propenoic acid... | 72162-39-1 | Data not available | Data not available | Data not available |
| Gans Photoinitiator UVP-2002 | TS | LD50 1340 - 2756 mg/kg bw (rat) | Data not available | LD50 2000 mg/kg bw (rat) |
| Gans Photoinitiator UVP-2011 | TS | LD50 5000 mg/kg bw (rat) | Data not available | LD50 2 000 mg/kg bw (rat) |

| Substance | CAS # (TS= trade secret) | Oral | Inhalation | Dermal |
|---|-----------------------------|------------------------------------|--|--------------------------------|
| Gans Photoinitiator UVP-2005 | TS | LD50 1694 mg/kg bw (rat) | Data not available | LD50 6929 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) |
| 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 Photoinitiator UVP-2008 | TS | LD50 2000 mg/kg bw (rat) | Data not available | LD50 2000 mg/kg bw (rat) |
| Proprietary UVI-5001 | TS | Data not available | Data not available | Data not available |
| Rosin | 8050-09-7 | LD50 1000 - 5000 mg/kg bw (rat) | Data not available | LD50 2000 mg/kg bw (rat) |
| Mequinol | 150-76-5 | Data not available | Data not available | LD50 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): 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. 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):

(a) UN number: UN3082

(b) UN Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

(c) Transport hazard class: 9

(d) Packing Group: PG III

(e) Environmental hazards: Marine Pollutant

(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 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.

New Jersey Right to Know:

- 2-ethylhexanoic acid CAS 149-57-5
- Mequinol CAS 150-76-5

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

Pennsylvania Right to Know:

- Mequinol CAS 150-76-5

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.