



GANS INK
& SUPPLY CO.

Safety Data Sheet

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

SECTION 1: IDENTIFICATION

SDS Number: 525, version 2/7/2019

(a) Product identifier

Gans Item ID: UV38-104, UV43-107, UV56-110, UV62-104, UV76-110, UV99-109, UV16382, UV16383, UV16384, UV16141, UV16142, UV16143, UV16144, UV16156, UV16157, UV16158, UV16213, UV16511, UV16512, UV16345

Gans Description: UVFlex Spec, UVFlex TJT Proc, UVFlex LED MDI, UV Primer PP

(b) Other means of identification

General description: UV Curing flexographic ink

(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: Not classified as Hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

Physical hazards: Not classified as hazardous

Health hazards:

- Skin Irritation – Category 2
- Eye Damage/Irritation – Category 1
- Sensitization, Skin – Category 1A
- Carcinogenicity – Category 1A
- Toxic to Reproduction – Category 1A
- Specific Target Organ Toxicity, Single Exposure – Category 3 (Respiratory tract)

Environmental hazards:

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

(b) Label elements

Signal Word: Danger

Hazard Statements: Causes skin irritation; Causes serious eye damage; May cause an allergic skin reaction; May cause cancer; May damage fertility or the unborn child; May cause respiratory irritation; Toxic to aquatic life; Toxic to aquatic life with long lasting effects;

Precautionary Statements: 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 fume/mist/ vapors/spray. Use only outdoors or in a well-ventilated area. 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 ON SKIN OR HAIR: Wash with plenty of water and mild soap. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it 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.

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

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

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 | CAS # (TS = trade secret) | Conc. min. (wt. %) | Conc. max. (wt. %) |
|---|----------------------------------|-------------------------------|-------------------------------|
| Hexamethylene diacrylate | 13048-33-4 | 0.0% | 35.3% |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate | 42978-66-5 | 0.0% | 23.2% |
| Acrylated resin, 1 | TS | 0.0% | 19.6% |
| 2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate | 15625-89-5 | 3.5% | 19.1% |
| 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% | 19.1% |
| 2-hydroxy-2-methylpropiophenone | 7473-98-5 | 0.0% | 17.4% |
| Oxybis(methyl-2,1-ethanediyl) diacrylate | 57472-68-1 | 0.0% | 17.1% |
| 2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate | 94108-97-1 | 0.0% | 17.0% |
| Polyester Acrylate | TS | 0.0% | 17.0% |
| Tetrahydrofurfuryl acrylate | 2399-48-6 | 0.0% | 11.9% |
| Reactive tertiary amine | TS | 0.0% | 10.0% |
| Acrylated resin, 2 | TS | 0.0% | 9.8% |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | 55818-57-0 | 0.0% | 8.9% |
| (5-ethyl-1,3-dioxan-5-yl) methyl acrylate | 66492-51-1 | 0.0% | 6.7% |
| Proprietary | TS | 0.0% | 5.8% |
| Acrylated polyol 1 | TS | 0.0% | 5.6% |
| Gans Photoinitiator UVP-2002 | TS | 2.0% | 4.3% |
| Gans Photoinitiator UVP-2007 | TS | 0.0% | 4.3% |
| Acrylated polyol 2 | TS | 0.0% | 3.4% |
| Gans Photoinitiator UVP-2035 | TS | 0.0% | 2.1% |
| Gans Photoinitiator UVP-2011 | TS | 0.0% | 2.0% |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | 0.0% | 1.7% |
| Siloxanes and Silicones, 3-[3-(acetyloxy)-2-hydroxypropoxy]propyl Me, di-Me, 3-[2-hydroxy-3-[(1-oxo-2-propen-1-yl)oxy]propoxy]propyl Me | 125455-51-8 | 0.0% | 1.0% |
| Epoxy acrylate oligomer | TS | 0.0% | 0.8% |
| Acrylic acid, monoester with propane-1,2-diol | 25584-83-2 | 0.0% | 0.4% |
| 2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate; 2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate | 15625-89-5 | 0.0% | 0.4% |
| Pigment, confidential | TS | 0.0% | 0.3% |
| Triphenylphosphine | 603-35-0 | 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. Call a poison center/doctor if you feel unwell.

Skin contact: Wash with plenty of water and mild soap. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it 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 swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician.

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

Ingestion: May cause cancer; May damage fertility or the unborn child;

Inhalation: May cause respiratory irritation;

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: Data not available.

SECTION 5: FIRE – FIGHTING MEASURES

(a) Extinguishing Media:

Suitable extinguishing media: Use CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media: Water with full jet.

(b) Special hazards arising from the substance or mixture: None known

(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:

Ensure adequate ventilation. Use personal protective equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing.

(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. Avoid release to the environment. Do not allow flow into storm drains or water ways, or into the natural environment.

Follow facility emergency spill and clean up procedure.

(b) Methods for containment and cleaning up:

Dike and contain spill. For large spills remove by mechanical means and place in containers. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal.

SECTION 7: HANDLING AND STORAGE

(a) Precautions for safe handling:

Wear protective gloves/eye protection/face protection. Avoid breathing fume/mist/ 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 in tightly-closed, original container in a dry and cool place. Protect from freezing and direct sunlight. Recommend storage temperature: 32-95 °F (0-35 °C)

Incompatibilities: Strong acids; Strong alkalis; Amines; Organic peroxides/hydroperoxides.

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: Ensure adequate ventilation for general industrial environment.

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

(c) Personal protective equipment:

Inhalation: Avoid breathing fume/mist/ vapors/spray. Where fume/mist/ vapors/spray is present, an organic vapor full facepiece respirator is recommended (to protect eyes and face as well).

Skin Contact: Wear protective gloves. 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, and face protection. Eye and face protective devices must comply with ANSI Z87.1-1989. Recommended eye protection: full face shield.

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): Liquid, various colors

(b) Odor: Acrylate

(c) Odor threshold: Data not available

(d) pH: NA

(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): Data not available

- (j) **Upper/ lower flammability explosion limits:** Data not available
- (k) **Vapor Pressure:** Data not available
- (l) **Vapor Density (Air = 1):** Data not available
- (m) **Relative Density (H₂O = 1):** Data not available
- (n) **Solubility:** Not soluble 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

SECTION 10: STABILITY AND REACTIVITY INFORMATION

- (a) **Reactivity:** The reactivity data for this product will be typical of those for the following class of materials: Strong acids. Strong alkalis. Oxidizing agents.
- (b) **Chemical stability:** Stable at normal ambient temperatures and when used as recommended.
- (c) **Possibility of hazardous reactions:** May polymerize.
- (d) **Conditions to avoid:** Avoid radical forming substances (metal-ions, peroxides).
- (e) **Incompatible materials:** Strong acids; Strong alkalis; Amines; Organic peroxides/hydroperoxides.
- (f) **Hazardous decomposition product:** Data not 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: May cause respiratory irritation;

Ingestion: May cause cancer; May damage fertility or the unborn child;

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

May cause cancer; May damage fertility or the unborn child;

(d) **Numerical measures of toxicity, acute:**

| Substance | CAS # (TS= trade secret) | Oral | Inhalation | Dermal |
|----------------------------------|--------------------------|--------------------------|--|------------------------------|
| Hexamethylen e 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) |
| 2-ethyl-2-[[1-(1-oxoallyl)oxy].. | 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) |
| Esterfication product ... | 84170-74-1 | LD50 5000 mg/kg bw (rat) | LC50 (4 h) 2 mg/L air (rat) | LD50 2000 mg/kg bw (rat) |
| 2-hydroxy-2- ... | 7473-98-5 | LD50 1694 mg/kg bw (rat) | Data not available | LD50 6929 mg/kg bw (rat) |

| Substance | CAS # (TS= trade secret) | Oral | Inhalation | Dermal |
|------------------------------------|--------------------------|---------------------------------|---|----------------------------------|
| Oxybis(methyl-2,1-... | 57472-68-1 | LD50 2810 - 4270 mg/kg bw (rat) | LC0 (7 h) 545 - 410 000 µg/m ³ air (rat) | LD50 2000 mg/kg bw (rabbit) |
| 2-[[[2,2-bis[[[1-oxoallyl]oxy].. | 94108-97-1 | LD50 5000 mg/kg bw (rat) | Data not available | Data not available |
| Polyester Acrylate | TS | Data not available | Data not available | Data not available |
| Tetrahydrofurfuryl acrylate | 2399-48-6 | LD50 882 - 1002 mg/kg bw (rat) | Data not available | Data not available |
| Reactive tertiary amine | TS | Data not available | Data not available | Data not available |
| Acrylated resin, 2 | TS | Data not available | Data not available | Data not available |
| 4,4'-Isopropyl... | 55818-57-0 | LD0 2000 mg/kg bw (rat) | Data not available | LD0 2000 mg/kg bw (rat) |
| (5-ethyl-1,3-dioxan-5-yl)... | 66492-51-1 | LD50 2 000 mg/kg bw (rat) | Data not available | LD0 2000 mg/kg bw (rat) |
| Proprietary | TS | Data not available | Data not available | Data not available |
| Acrylated polyol 1 | TS | 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-2007 | TS | LD50 1694 mg/kg bw (rat) | Data not available | LD50 6929 mg/kg bw (rat) |
| Acrylated polyol 2 | TS | Data not available | Data not available | Data not available |
| Gans Photoinitiator UVP-2035 | TS | LD50 5000 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 2000 mg/kg bw (rat) |
| Glycerol, propoxylated, esters ... | 52408-84-1 | LD50 2000 mg/kg bw (rat) | Data not available | LD50 2000 mg/kg bw (rat) |
| Siloxanes and Silicones, ... | 125455-51-8 | Data not available | Data not available | Data not available |
| Epoxy acrylate oligomer | TS | Data not available | Data not available | Data not available |
| Acrylic acid, ... | 25584-83-2 | LD50 820 mg/kg bw (rat) | LC50 (8 h) 380 mg/m ³ air (rat) | LD50 1000 mg/kg bw (rat) |
| 2-ethyl-2-[[[1-oxoallyl]... | 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) |
| Pigment, confidential | TS | Data not available | Data not available | Data not available |
| Triphenylphosphine | 603-35-0 | LD50 700 mg/kg bw (rat) | LC50 (4 h) 12.5 mg/L air (rat) | approx. LD50 2500 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. 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): Environmentally hazardous substance, liquid, N.O.S.; mixed acrylates

(a) UN number: UN3082

(b) UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.; mixed acrylates

(c) Transport hazard class: 9

(d) Packing Group: III

(e) Environmental hazards: Marine Pollutant

(f) Transport in bulk

MARPOL 73/78: No data available.

IBC: No data available.

(g) Special Precautions: No data available.

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: No data available

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

Pennsylvania Right to Know: No data available

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.