



GANS INK
& SUPPLY CO.

Safety Data Sheet

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

SECTION 1: IDENTIFICATION

SDS Number: 500.1, version 6/14/2016

(a) Product identifier

Gans Item ID: UV15597, UV15598, UV15599, UV15600

Gans Description: LED Paper, process colors

(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:**
 - Eye Damage - Category 1
 - Skin Sensitization - Category 1A
 - Reproductive Toxicity - Category 2
 - Specific Target Organ Toxicity Single Exposure (STOT SE) - Category 3, Respiratory Tract Irritation
 - Aquatic Toxicity, Acute - Category 2
 - Aquatic Toxicity, Chronic - Category 2

(b) Label elements

Signal Word: Danger

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

Precautionary Statements:

Prevention: Wear eye protection/face protection. Avoid breathing mist/ vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. 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. Use only in a well-ventilated area. Avoid release to the environment.

If exposed or concerned: 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.

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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

Collect spillage. Store locked up. 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)	Maximum concentration
Acrylated resin	TS	21.6%
Polyester Acrylate	TS	15.0%
DiTrimethylolpropane Tetraacrylate	94108-97-1	15.0%
Epoxy acrylate oligomer	55818-57-0	13.4%
Urethane acrylate oligomer	TS	11.7%
Pentaerythritol triacrylate	3524-68-3	3.9%
Pentaerythritol tetraacrylate	4986-89-4	3.9%
2-[[3-[(1-oxoallyl)oxy]-2,2-bis[[1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	29570-58-9	3.5%
Glycerol propoxylate triacrylate	TS	2.0%
Photo-initiator	TS	2.0%
Pentaerythritol, ethoxylated, esters with acrylic acid	51728-26-8	2.0%
Epoxy Acrylate Oligomer	TS	0.6%
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	1.0%
Polyol Acrylate	TS	0.4%
4-methoxyphenol	150-76-5	0.1%
triphenylphosphine	603-35-0	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. 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: Rinse mouth.

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

Suspected of damaging fertility or the unborn

Inhalation: May cause respiratory irritation

Skin contact: 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 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:

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:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing

Wear eye protection or face protection.

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

Avoid breathing mist/ vapors/spray.

Use only outdoors or in a well-ventilated area.

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

Substance	CAS #	OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH 2015 TVL
		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
Data not available						

(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 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 approximate

(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 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

No data available

(d) Numerical measures of toxicity:

Substance	CAS # (TS= Trade Secret)	Dermal	Oral	Inhalation
Acrylated resin	TS	Data not available	Data not available	Data not available
Polyester Acrylate	TS	Data not available	Data not available	Data not available
DiTrimethylolpropane Tetraacrylate	94108-97-1	LD50 4.7 mL/kg bw (rabbit)	LD50 5000 mg/kg bw (rat)	LC50 (6 h) 550 mg/m ³ air (rat)
Epoxy acrylate oligomer	55818-57-0	LD50 2000 mg/kg bw (rat)	LD50 2 000 mg/kg bw (rat)	Data not available
Urethane acrylate oligomer	TS	Data not available	Data not available	Data not available
Pentaerythritol triacrylate	3524-68-3	Data not available	Data not available	Data not available
Pentaerythritol tetraacrylate	4986-89-4	Data not available	Data not available	Data not available
2-[[3-[(1-oxoallyl)oxy]-2,2-bis[[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	29570-58-9	Data not available	Data not available	Data not available
Glycerol propoxylate triacrylate	TS	Data not available	Data not available	Data not available
Photo-initiator	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)	LD50 2000 mg/kg bw (rat)	Data not available
Epoxy Acrylate Oligomer	TS	Data not available	Data not available	Data not available
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	LD50 2000 mg/kg bw (rabbit)	LD50 2000 mg/kg bw (rat)	Data not available
Polyol Acrylate	TS	Data not available	Data not available	Data not available

Substance	CAS # (TS= Trade Secret)	Dermal	Oral	Inhalation
4-methoxyphenol	150-76-5	LD50 2000 mg/kg bw (rat)	Data not available	Data not available
triphenylphosphine	603-35-0	approx. LD50 2 500 mg/kg bw (rat)	LD50 700 mg/kg bw (rat)	LC50 (4 h) 12.5 mg/L air (rat)

(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:

- Aquatic Toxicity, Acute - Category 2
- Aquatic Toxicity, 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

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

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

Canadian Environmental Protection Act: No data 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.