



GANS INK
& SUPPLY CO.

Safety Data Sheet

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

SECTION 1: IDENTIFICATION

SDS Number: 523, version 6/14/2018

(a) Product identifier

Gans Item ID: UV15853, UV15854, UV15855, UV15856

Gans Description: Low-Zone Plas (Process colors)

(b) Other means of identification

General description: Lithographic printing ink, 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 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 Irritation – Category 2
- Eye Damage/Irritation – Category 1
- Sensitization, Skin – Category 1A
- Toxic to Reproduction – Category 1B

(b) Label elements

Signal Word: Danger



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Hazard Statements: Causes skin irritation; Causes serious eye damage; May cause an allergic skin reaction; Suspected of damaging 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 fume/mist/ vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wash contaminated areas thoroughly after handling.

Response:

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

IF ON SKIN OR HAIR: Wash with plenty of water and mild soap. If skin irritation 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.

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

None known

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	14.3%	18.2%
Acrylated oligomer	TS	10.2%	11.6%
Hexamethylene diacrylate	13048-33-4	4.9%	10.4%
Oxybis(methyl-2,1-ethanediyl) diacrylate	57472-68-1	4.0%	5.5%
Gans photoinitiator UVP-2035	TS	3.5%	4.0%
Glycerol propoxylate triacrylate	TS	3.5%	4.0%
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	2.5%	3.5%
Acrylated resin Gans UVO-1040	TS	2.8%	3.5%

Substance	CAS # (TS = trade secret)	Conc. min. (wt. %)	Conc. max. (wt. %)
Rosin	8050-09-7	0.0%	2.7%
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	0.0%	1.4%
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	0.0%	0.7%
Epoxy acrylate oligomer	TS	0.0%	0.7%
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:

Ingestion: If exposed or concerned: Get medical advice/attention.

Inhalation: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing.

Skin contact: Wash with plenty of water and mild soap. If skin irritation 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.

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

Ingestion: Suspected of damaging fertility or the unborn child

Inhalation: Data not available; not classified as hazardous

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, pain, or irritation 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 toxic and corrosive gases or vapors.

(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 fume/mist/ vapors/spray. Ensure adequate ventilation. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective 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.

(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:

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. Contaminated work clothing must not be allowed out of the workplace. Wash contaminated areas thoroughly after handling

(b) Conditions for safe storage:

Store locked up. Store in tightly-closed, original container in a dry and cool place. Protect from freezing and direct sunlight.

Recommend storage temperature: 39-104 °F (4-40 °C).

Incompatibilities: Avoid contact with peroxides, free radical producing initiators, reactive metals, strong oxidizing agents, and amines or basic materials.

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: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

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, and 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, 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):** Viscous paste or liquid, various colors

(b) **Odor:** Ester-like

(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 (mm Hg @ 68°F):** Data not available

(l) **Vapor Density (Air = 1):** Data not available

(m) **Relative Density (H₂O = 1):** 1.233 (calculated average)

(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

VOC: < 0.10 lbs./gal; 12.3 g/L

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 > 104° F, 40° C), sources of ignition, sunlight, and incompatible materials.

(e) **Incompatible materials:** Avoid contact with peroxides, free radical producing initiators, reactive metals, strong oxidizing agents, and amines or basic materials.

(f) **Hazardous decomposition product:** No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

(a) Likely routes of exposure: Skin contact, eye contact, inhalation, and 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; not classified as hazardous

Ingestion: Suspected of damaging fertility or the unborn child.

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

Suspected of damaging 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
Acrylated oligomer	TS	Data not available	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 3650 mg/kg bw (rabbit)
Oxybis(methyl-2,1-ethanediy)...	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)
Gans UVP-2035	TS	LD50 5000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rat)
Glycerol propoxylate...	TS	Data not available	Data not available	Data not available
2-benzyl-2-dimethylamino...	119313-12-1	LD50 5000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rat)
Acrylated resin Gans UVO-1040	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)
Glycerol, propoxylated,...	52408-84-1	LD50 2000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rabbit)
4,4'-Isopropylidenedi phenol, ...	55818-57-0	LD0 2000 mg/kg bw (rat)	Data not available	LD0 2000 mg/kg bw (rat)
Epoxy acrylate oligomer	TS	Data not available	Data not available	Data not available
Tris(N-hydroxy-N-...	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) 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: 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 regulated

(a) UN number: Not regulated

(b) UN Proper Shipping Name: Not regulated

(c) Transport hazard class: Not regulated

(d) Packing Group: Not regulated

(e) Environmental hazards: Not regulated

(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

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

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

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

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

Canadian Environmental Protection Act:

WHMIS Classification: No data available

European Chemical Agency (ECHA)

Candidate List of Substances of Very High Concern (SoVHC): 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.