



GANS INK
& SUPPLY CO.

Safety Data Sheet

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

SECTION 1: IDENTIFICATION

SDS Number: 641, version 10/18/2018

(a) Product identifier

Gans Item ID: 38-170, 43-170, 43-171, 56-171, 56-172, 56-173, 58-170, 62-170, 76-170, 76-171, 76-172, 99-170, 86320, G011947, G011948, G011949, G011950, G011951, G011952, G011953, G011954, G011955, G011957

Gans Description: Pyroscreen, Pyroscreen mixing

(b) Other means of identification

General description: Sublimation silk screen inks, solvent based chemistry

(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:

- Flammable Liquid Category 3

Health hazards:

- Skin Irritation – Category 2
- Eye Damage/Irritation – Category 2A
- Sensitization, Skin – Category 1A
- Germ Cell Mutagenicity – Category 1B



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& SUPPLY CO.

- Carcinogenicity – Category 1B
- Specific Target Organ Toxicity, Repeat Exposure – Category 1
- Aspiration Hazard – Category 1

(b) Label elements

Signal Word: Danger

Hazard Statements: Flammable liquid and vapor; Causes skin irritation; Causes serious eye irritation; May cause an allergic skin reaction; May be fatal if swallowed and enters airways; May cause genetic defects; May cause cancer; Causes damage to organs <central nervous system> through prolonged or repeated exposure <<inhalation>>

Precautionary Statements:

Prevention: Keep away from heat/sparks/open flames/hot surfaces.– No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

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 fume/mist/ vapors/spray. Wash contaminated areas thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace.

Response:

IN CASE OF FIRE: Use CO₂, dry chemical, fire-fighting foam to extinguish.

IF EXPOSED OR CONCERNED: Get medical advice/attention.

IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting.

IF INHALED: Get medical advice/attention if you feel unwell.

IF ON SKIN OR HAIR: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water and mild soap. If skin irritation 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.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

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. %)
Stoddard solvent	8052-41-3	0.05	24.0%
Solvent naphtha (petroleum), light arom.	64742-95-6	5.0%	24.0%
Blue dye, Gans 238-49	TS	0.0%	15.0%
Blue dye, Gans 243-54	TS	0.0%	15.0%
Red dye, Gans 276-38	TS	0.0%	15.0%
Red dye, Gans 276-48	TS	0.0%	15.0%
Naphtha (petroleum), hydrotreated heavy	64742-48-9	15.0%	15.0%
2-(propyloxy)ethanol	2807-30-9	2.5%	8.0%
Distillates (petroleum), hydrotreated middle	8042-47-5	0.0%	6.9%
Ethanol	64-17-5	0.5%	4.0%
Alkanes, C13-16-iso-	68551-20-2	0.0%	1.5%

SECTION 4: FIRST AID MEASURES

(a) Description of first aid measures:

Ingestion: Immediately call a poison center/doctor. Do NOT induce vomiting.

Inhalation: Get medical advice/attention if you feel unwell.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water and mild soap. If skin irritation 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.

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

Ingestion: May be fatal if swallowed and enters airways; May cause genetic defects; May cause cancer;

Inhalation: Causes damage to organs <central nervous system> through prolonged or repeated exposure <<inhalation>>. May be fatal if swallowed and enters airways;

Skin contact: Causes skin irritation; May cause an allergic skin reaction;

Eye contact: Causes serious eye irritation;

(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 can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

(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: Follow your company 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:

Keep away from heat/sparks/open flames/hot surfaces.– No smoking. Use explosion-proof electrical/ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

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 fume/mist/ vapors/spray. Wash contaminated areas thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace.

(b) Conditions for safe storage:

Store locked up. Store in a well-ventilated place. Keep cool. Keep away from sparks, open flames – No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Incompatibilities: Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

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
Stoddard solvent	8052-41-3	500	2900	100 ppm	350 mg/m ³ (C) 1800 mg/m ³ [15-min]	100 ppm
Ethanol	64-17-5	1000	1900	1000 ppm	1000 ppm	(ST) 1000 ppm

No hazardous ingredients in this mixture appear on OSHA Annotated Tables Z-1, Z-2, or Z-3.

(b) Appropriate engineering controls:

Ventilation requirements: Handle only in a place equipped with local exhaust (or other appropriate exhaust). 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: Do not breathe mist, vapors, spray. Where mist or aerosol 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. Ansell Chemical Resistance Guide, 8th Edition recommends the following glove materials for aromatic chemistry like benzene: Barrier, laminate film; PVA, supported polyvinyl alcohol; Chemtek Viton/ Butyl, unsupported Viton/butyl

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 liquid, various colors

(b) Odor: Organic solvent

(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: 85 °F (29 °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

(n) Solubility: Data not available

(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.): 47-62

VOC: ≤ 5.16 lbs./gal; ≤ 620 g/L

SECTION 10: STABILITY AND REACTIVITY INFORMATION

(a) Reactivity: Not reactive under normal storage conditions. See Section 7.

(b) Chemical stability: Mixture is chemically stable under normal storage and handling conditions, and under normal temperatures and pressures.

(c) **Possibility of hazardous reactions:** No data available

(d) **Conditions to avoid:** Keep away from open flames, sparks, hot surfaces and sources of ignition.

(e) **Incompatible materials:** Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

(f) **Hazardous decomposition product:** Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

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 irritation;

Inhalation: Causes damage to organs <central nervous system> through prolonged or repeated exposure <<inhalation>>. May be fatal if swallowed and enters airways.

Ingestion: May be fatal if swallowed and enters airways; May cause genetic defects; May cause cancer;

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

Causes damage to organs <central nervous system> through prolonged or repeated exposure <<inhalation>>. May cause genetic defects. May cause cancer.

(d) Numerical measures of toxicity, acute:

Substance	CAS # (TS= trade secret)	Oral	Inhalation	Dermal
Stoddard solvent	8052-41-3	LD50 5000 mg/kg bw (rat)	LC50 (8 h) 8.2 - 12.19 mg/L air (rat)	LD50 3000 - 3160 mg/kg bw (rabbit)
Solvent naphtha (petroleum),	64742-95-6	LD50 5000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rabbit)
Blue dye, Gans 238-49	TS	Discriminating dose 5000 mg/kg bw (rat)	Data not available	Data not available
Blue dye, Gans 243-54	TS	Data not available	Data not available	Data not available
Red dye, Gans 276-38	TS	Data not available	Data not available	Data not available
Red dye, Gans 276-48	TS	LD50 2772 - 7000 mg/kg bw (rat)	Data not available	Data not available
Naphtha (petroleum)	64742-48-9	LD50 5000 mg/kg bw (rat)	Data not available	LD50 2000 mg/kg bw (rabbit)
2-(propyloxy) ethanol	2807-30-9	LD50 3089 - 6178 mg/kg bw (rat)	Data not available	LD50 1337 mL/kg bw (rabbit)
Distillates (petroleum)	8042-47-5	LD50 5000 mg/kg bw (rat)	LC50 (4 h) 5 mg/L air (rat)	LD50 2000 mg/kg bw (rabbit)
Ethanol	64-17-5	LD50 1187 - 15,010 mg/kg bw (rat)	LC50 (4 h) 115.9 - 133.8 mg/L air (rat)	Data not available
Alkanes, C13-16-iso-	68551-20-2	Data not available	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.

RCRA Codes: NA

SECTION 14: TRANSPORT INFORMATION

US DOT (Ground):

(a) UN number: UN11210

(b) UN Proper Shipping Name: Printing ink, flammable

(c) Transport hazard class: 3

(d) Packing Group: III

(e) Environmental hazards: No data available

(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

- Stoddard solvent 8052-41-3
- Ethanol 64-17-5

Oregon DEQ List of Air Toxic Contaminants:

- 2-(propyloxy) ethanol 2807-30-9

Pennsylvania Right to Know

- Stoddard solvent 8052-41-3
- Ethanol 64-17-5

HMIS III

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZZARD	0

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.