

**Material Safety Data Sheet # 172**  
**For Printing Inks and related Materials**  
**OSHA Hazard Communication Standard, 29 CFR 1910.1200**

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 MSDS: 172

**I. PRODUCT IDENTIFICATION**

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033  Emergency phone: (323) 264-2200	<b>HMIS HAZARD IDENTIFICATION</b>  <table border="1"> <tr> <td>Health</td><td>0</td></tr> <tr> <td>Flammability</td><td>1</td></tr> <tr> <td>Reactivity</td><td>0</td></tr> <tr> <td>Personal Protection</td><td>B</td></tr> </table>	Health	0	Flammability	1	Reactivity	0	Personal Protection	B
Health	0								
Flammability	1								
Reactivity	0								
Personal Protection	B								
<b>Product Class:</b> W.B. Silkscreen Additive	<b>Manufacturer's code:</b> S-1315								
<b>Trade Name:</b> W.B. Pyroscreen Thinner									

**II. HAZARDOUS INGREDIENTS**

Material	CAS #	%	Exposure Limits	Units
Propylene Glycol	57-55-6	25.0	OSHA / PEL ACGIH/ TLV OSHA / TWA	Not Established Not Established WEEL 10 mg/m3 Aerosol
<p>This product is not a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.</p> <p>EU Inventory: 200-338-0            WEEL: Work place Environmental Exposure Level</p>				

**III. HEALTH HAZARD INFORMATION**

Effects of Overexposure
<b>Inhalation:</b> This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. At room temperature, exposure to vapor is minimal due to low volatility. In high concentrations may result in irritation of the throat and lungs. In rare cases repeated exposure to high concentrations of Propylene Glycol may result in depression symptoms related to the central nervous system (CNS).
<b>Skin Contact:</b> This product is essentially non-irritating to skin. Prolonged or repeated contact is unlikely to result in absorption of harmful amounts. Repeated contact may cause drying and defatting of skin, which may lead to dermatitis.
<b>Eye Contact:</b> This product may cause slight temporary eye irritation. Corneal injury is unlikely. This product has a low vapor pressure and is not expected to present a hazard to the eyes at ambient conditions. Exposure to high concentrations of vapors may be irritating to the eyes, mist may cause eye irritation.
<b>Ingestion:</b> Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Ingestion of high doses may cause discomfort and irritation of the gastrointestinal tract and CNS depression (fatigue dizziness and possibly loss of concentration, with collapse, coma and death in cases of <u>severe</u> over-exposure.

**IV. FIRST AID PROCEDURES**

Emergency & First Aid Procedures
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<b>Eyes:</b> Flush eyes thoroughly with large amounts of water and continue flushing for 15 minutes until irritation subsides. If irritation persists, consult a physician, preferably an ophthalmologist. If wearing contact lenses remove after the initial 1-2 minutes and continue flushing for several additional minutes.
<b>Skin:</b> Not expected to present a significant skin hazard under anticipated conditions of normal use. If skin contact occurs, remove contaminated clothing. And wash contaminated area thoroughly with plenty of water.
<b>Inhalation:</b> This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. If mist or exposure is generated when the material is heated or handled, remove victim from exposure to fresh air immediately. If breathing has stopped or is irregular, administer artificial respiration and supply oxygen as needed. Obtain medical attention if breathing difficulty persists.
<b>Ingestion:</b> Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No emergency medical treatment necessary. If large quantity swallowed, give lukewarm water (pint/ ½ liter) if victim completely conscious / alert. Obtain medical attention.
<b>Notes to Physician:</b> Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

## V. FIRE AND EXPLOSION DATA

<b>Flash Point °F:</b> 217 PMCC		<b>Auto-ignition Temperature °F:</b> 700 F
<b>Flammable Limits in Air (% Volume)</b>	<b>Lower Limit:</b> 2.6	<b>Upper Limit:</b> 12.5
<p><b>Extinguishing Media:</b> Small fires use water fog, alcohol resistant foam, CO<sub>2</sub>, or dry chemical extinguishing media. Large fires: use water spray or water fog. Do not use direct water stream, may spread fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.</p> <p><b>Special Fire Fighting Procedures:</b> Isolate fire and deny any unnecessary entry. Fight fire from protected location or safe distance. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reigniting has passed. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Aqueous solutions containing less than 95% propylene glycol by weight have no flashpoint as obtained by standard tests methods. However aqueous solutions of propylene glycol greater than 22% by weight, if heated sufficiently will produce flammable vapors. Only aqueous solutions of propylene glycol less than 22% should be used in sprinkler systems or other fire fighting equipment. Move container from fire area if this is possible without hazard.. If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specific exposure or flammable limits.</p> <p>Special Protective equipment for fire fighter. Wear self contained breathing apparatus (SCBA) and helmet, coat trousers, boots and gloves.</p> <p><b>Unusual Fire &amp; Explosion Hazard:</b> Heat from fire can generate flammable vapor. Fine sprays /mists may be combustible at temperatures below normal flash point. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air, may travel long distances along the ground before igniting and flashing back to vapor source. Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and other oxides may be generated as products of combustion. Container may rupture from gas generation in a fire situation</p>		

## VI. ACCIDENTAL RELEASE

<b>Steps to be taken in event of spill or release:</b> Remove all sources of ignition. Ventilate area. Avoid breathing vapors. Contain release and absorb with inert material such as sand, vermiculite etc. Place in a suitable container for disposal in accordance with local, state, and federal regulations. Wash the spill site with large quantities of water. Prevent from entering soil, ditches, sewers, waterways and / or groundwater.
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## VII. HANDLING AND STORAGE

<b>Handling and Storage:</b> Store containers in a cool, well-ventilated area away from sources of ignition. Keep containers closed when not in use. Empty containers should be disposed of in an environmentally safe manner in accordance with applicable regulations. Keep containers closed when not in use.
<b>Other Precautions:</b> Wash with soap and water before eating, smoking or using toilet facilities.

Smoke in designated areas only. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor.

### VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation Requirements:** If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specific exposure or flammable limits.

#### Personal Protective Equipment

**Respirator:** If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.

**Skin:** Not a skin irritant. Not expected to be a sensitizer. No special clothing needed.

**Gloves:** Chemical protective gloves should not be needed when handling this material. Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

**Eye:** Use splash-proof goggles, face shield or safety glasses.

### IX. PHYSICAL AND CHEMICAL DATA

<b>Boiling Range °F:</b> 212 - 369.3 F	<b>Vapor Density (Air = 1):</b> >1
<b>Relative Density (H<sub>2</sub>O = 1):</b> 1.005	<b>Vapor Pressure (mm Hg @ 70°F):</b> > 2.0
<b>Material Density Lbs./Gal:</b> 8.37	<b>Solubility in Water:</b> Soluble
<b>%Volatiles by Weight:</b> 0.13	<b>Evaporation Rate:</b> N/A <b>pH:</b> N/A
<b>VOC: lbs/gal:</b> 0.011 <b>g/L:</b> 1.31	<b>Appearance/Odor:</b> Colorless / Odorless Liquid

### X. STABILITY AND REACTIVITY INFORMATION

<b>Stability (Thermal, Light, etc.):</b> Stable	<b>Conditions to avoid:</b> Excessive heats, sources of ignition, sparks and open flame. Exposure to elevated temperatures can cause product to decompose.
<b>Hazardous Polymerization:</b> Will not occur during normal conditions.	<b>Materials to avoid:</b> Contact with strong acids or bases. Oxidizing/ reducing agents
<b>Hazardous Decomposition Products:</b> Hazardous fumes, CO <sub>2</sub> , CO, and other noxious gases may be generated as products of combustion.	

### XI. TOXICOLOGICAL INFORMATION

**CARCINOGEN:** This product has not been identified as a carcinogen by OSHA or the National Toxicology Program (NTP), or the International Agency for Research Cancer (IARC).

**Mutagen:** Not Listed

**Teratogen:** Not Listed

**Reproductive Toxicity:** Not Listed

**Mutagen:** In vitro genetic toxicity studies: Negative. Animal genetic toxicity studies: Negative.

**Teratogen:** Results from studies on pregnant rats, mice, hamsters and rabbits demonstrate that **propylene glycol** is not teratogenic

**Reproductive Toxicity:** Negative in animal studies.

LD50 (Oral), Rat 20,000 - 34,000 mg/ kg

Skin Absorption

LD50 (Skin), Rabbit > 20, 000 mg/kg

## XII. ECOLOGICAL INFORMATION

The components in this product are readily biodegradable. Passes OECD tests for ready biodegradability. Biodegradation may occur under anaerobic conditions (in the absence of oxygen) This material is expected to be non hazardous to aquatic species. Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC 50 > 100 mg/l in the most sensitive species tested.)

## XIII. DISPOSAL INFORMATION

**Waste Disposal Method:** If recycling as ink is not possible, material may be incinerated or land filled at a licensed facility in accordance with local, state, and federal regulations.

RCRA, Resource Conservation and Recovery Act: This product is not a hazardous waste under RCRA (40 CFR 261.21).

## XIV. TRANSPORT INFORMATION

**Flammability Classification:**

<b>OSHA:</b>	Class III B
<b>DOT:</b>	Not Regulated
<b>IATA/ ICAO:</b>	Not Hazardous
<b>IMO/ IMDG:</b>	Not Hazardous
<b>TDG Canada:</b>	Not Regulated

## XV. REGULATORY INFORMATION

**OSHA:** This product is not a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**SARA Title III Section 313:**

This product does not contain chemicals subject to the reporting requirements of the Superfund Amendments and Reauthorization ACT (SARA).

**TSCA Section 8(b) Inventory Status:**

All component(s) of this product are either exempt or listed on the TSCA Inventory.

**DSL (Canadian Domestic Substances List):**

All components of this product are either exempt or listed on the DSL.

**EINECS (European Inventory of Existing Commercial Chemical Substances) List:**

This product and/or its components are included or are otherwise exempt from inventory requirements.

**IECSC (Inventory of Existing Chemical Substances in China):**

All components of this product are listed on the IECSC.

**U.S. State Regulations**

**California Proposition 65:**

This product does not intentionally contain any chemicals known by the state of California to cause cancer and/or reproductive harm. Moreover, Gans Ink and Supply Co., Inc. does not routinely analyze its products for impurities which may be such chemicals.

## XVI. 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.