

Material Safety Data Sheet #122
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

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 MSDS#: 122

I. PRODUCT IDENTIFICATION

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033 Emergency phone: (323) 264-2200	HMIS HAZARD IDENTIFICATION								
	<table border="1"> <tr><td>Health</td><td>2</td></tr> <tr><td>Flammability</td><td>3</td></tr> <tr><td>Reactivity</td><td>0</td></tr> <tr><td>Personal Protection</td><td>X</td></tr> </table>	Health	2	Flammability	3	Reactivity	0	Personal Protection	X
Health	2								
Flammability	3								
Reactivity	0								
Personal Protection	X								
Product Class: Silkscreen Extender	Manufacturer's code: S-1307, S-1320, G011957								
Trade Name: Pyroscreen Extender & Blending Base									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Petroleum Distillate Stoddard solvent	8052-41-3	9- 27	OSHA PEL/ TWA TWA; 525 mg/m3 TWA: 2900 mg/m3	100 ppm
Petroleum Distillate Naphtha light aromatic	64742-95-6	9 – 27	OSHA PEL ACGIH TLV	Not Established Not Established
Solvent Naphtha (Petroleum) Medium Aliphatic	64742-88-7	6.0	OSHA Z1 PEL 2,900 mg/m3 OSHA Z1A TWA 525 mg/m3	500 ppm 100 ppm
Limestone	1317-65-3	9 –27	OSHA PEL /TWA 15 mg/m3 OSHA PEL/ TWA; 5 mg/m3	
Stoddard solvent	8047-42-5	5.0	OSHA /PEL TWA 5mg/m3 8 hours ACGIH TLV TWA 5 mg/m3 8 hour inhalation fraction	
*1,2,4 Trimethylbenzene	95-63-6	4.5 –9.0	OSHA / PEL ACGIH / TLV	25 ppm 25 ppm
Ethylene glycol monopropyl ether Established	2807-30-9	4.5 – 9.0	OSHA /PEL	Not
Crystalline silica(cristobalite)	14464-46-1	4.5 – 9.0	OSHA PEL/ TWA ACGIH/ TLV/ TWA	0.05 mg/m3 dust 0.05 mg/m3 dust
Ethyl alcohol	64- 17-5	< 0. 9 –4. 5	OSHA PEL/ TWA OSHA PEL/ TWA ACGIH TLV/ TWA	1900 mg/m3 1000 ppm 1000 ppm
Diatomaceous earth	68855-54-9	< 0.9 –4. 5	OSHA/ PEL ACGIH / TLV	Not Established Not Established
1,3,5- Trimethylbenzene (contaminant)	108-67-8	< 0.9 – 4. 5		

Cumene (contaminant)	98-82-8	< 0.9 –4. 5	OSHA PEL /TWA 245 mg/m ³ OSHA PEL/ TWA skin 50 ppm ACGIH TLV/ TWA 50 ppm
<p>*Component names which have the word (contaminant) are constituents contained in Aromatic Hydrocarbon ingredients and are an integral part of the ingredient and cannot be separated. The percentage listed for the contaminant is as contained in the Hydrocarbon ingredient. (Example: 100 % Hydrocarbon, 10 % contaminant A, 3% contaminant B).</p>			

III. HEALTH HAZARD INFORMATION

<p>Effects of Overexposure</p> <p>Inhalation: Avoid inhalation. Primary exposure route. Inhalation of high vapor concentrations may cause symptoms like headaches, dizziness, tiredness, nausea and vomiting. Repeated or prolonged over exposure by inhalation may cause respiratory tract irritation. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage, liver, kidney and blood damage, reproductive disorders. Intentional misuse by concentrating and inhaling the contents may be harmful or fatal. Symptoms may include central nervous system disorders such as headaches, dizziness, w Target Organ Effects: Blood, Central nervous system, Central Vascular System, Eyes, Kidney, Liver, Lungs, Reproductive System, Respiratory System, and Skin eakness and fatigue, confusion.</p> <p>Skin Contact: Primary exposure route. Avoid skin contact. May cause skin irritation and / or dermatitis. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. This condition may make the skin more susceptible to other irritants, sensitizers, and disease. Pre-existing skin conditions may make the skin more susceptible and facilitate uptake by this route.</p> <p>Eye Contact: Avoid eye contact. May cause irritation of eyes. Eye contact with liquid, vapors or mists may cause redness, burning, tearing and swelling, Pre- existing eye conditions maybe more susceptible to irritation.</p> <p>Ingestion: Primary exposure route. Do not ingest. Aspiration hazard. May cause gastrointestinal irritation. Symptoms may include abdominal pain, nausea, vomiting and diarrhea. Aspiration of material into lungs may cause chemical pneumonitis which can be fatal. Severe oral intoxication will lead to intense burning of the throat and may result in drowsiness, dullness, numbness, and headache followed by dizziness, weakness, and nausea. Loss of consciousness and convulsions followed by death may result. See <i>Notes to Physician</i> section below.</p>

IV. FIRST AID PROCEDURES

<p>Emergency & First Aid Procedures</p> <p>Eyes: Immediately flush eyes with large amounts of water and continue flushing for 15 minutes until irritation subsides. After initial flushing remove contact lenses and continue flushing for at least 15 minutes. If irritation develops or persists, seek immediate medical attention.</p> <p>Skin: Wash contaminated area thoroughly with mild soap and water for at least 15 minutes while removing contaminated clothing and shoes. Cool water is initially suggested to prevent the pores of the skin from opening. This will minimize the both the area and time of skin contact. Lukewarm water may then be used to ensure all contaminants are removed. Skin should be monitored for reddening and burns. Get medical attention if irritation persists or significant contact has occurred. Thoroughly wash (or discard) clothing and shoes before reuse.</p> <p>Inhalation: Remove to fresh air. If breathing has stopped or is irregular, administer artificial respiration and supply oxygen if it is available. If victim is unconscious, remove to fresh air and seek medical attention.</p> <p>Ingestion: If swallowed Do not induce vomiting. Seek immediate medical attention. Never give by mouth anything to an unconscious person.</p> <p>Notes to Physician: Aspiration may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage, and may be fatal. Signs of lung involvement include increased respiration rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking, and gagging are often noted at the time if aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration.</p>

V. FIRE AND EXPLOSION DATA

Flash Point °F: 85 °F (29°C) (PMCC)	Auto-ignition Temperature °F: 428 ASTM E-659	
Flammable Limits in Air (% Volume)	Lower Limit: No Data	Upper Limit: No Data
<p>Extinguishing Media: Use foam, CO₂, dry chemical: Water spray extinguishing media. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p> <p>Special Fire Fighting Procedures: Full protective equipment including self-contained breathing apparatus (SCBA) is recommended to protect firefighters. Keep away from fire, sparks and heated surfaces. Water may be used to cool containers exposed to heat or flame. Keep containers tightly closed.</p> <p>Unusual Fire & Explosion Hazard: Isolate from heat, electrical equipment, sparks, and open flame. Keep containers tightly closed. Flammable Liquid and vapor. Vapors may be heavier than air and can travel to a source of ignition and flash back. Closed containers may explode when exposed to extreme heat. Fumes released on burning may be toxic and dangerous. Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and other oxides may be generated as products of combustion.</p>		

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Remove all sources of ignition, heat flames, hot surfaces, and electrical static or frictional sparks. Ventilate area. Avoid breathing dust or vapors. Avoid contact with eyes, skin and clothing. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Absorb material with inert, non combustible material such as sand, dirt, vermiculite. Use non-sparking tools to place material in appropriate container for disposal. Do not allow to enter into sewers, waterways etc.

VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool, well-ventilated area. Keep away from all sources of ignition, open flame, and hot surfaces. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep containers closed when not in use. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated exposure to this product. When using product, do not smoke. Harmful or fatal if swallowed. Consumption of food and beverages should be avoided in work areas. Always wash hands and face with soap and water before eating, drinking, and smoking..

Other Precautions: For industrial use only. Do not ingest. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Requirements: Use only with adequate ventilation. 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: Avoid breathing vapor. Wear approved protection such as an organic vapor cartridge or an air supplying respirator unless ventilation is adequate to keep below the specified exposure limits. If vapor or mist is generated when the material is heated or handled, a P100 (99.97% efficiency) filter should be used in addition to the organic vapor cartridge. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.

Skin: Use impervious synthetic rubber clothing (boots, aprons, etc.) over parts of the body subject to exposure. Use neoprene, nitrile or other chemical resistant gloves. Never try to remove product from skin by using solvent or thinner. Such action is likely to increase the possibility of undesirable effects. Safety showers are highly recommended.

Eye: Use ANSI (American National Standards Institute) approved safety glasses, face shield or goggles to prevent eye contact. The availability of eyewash is highly recommended.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: 300 - 530 F (149 - 276.7 °C)	Vapor Density (Air = 1): > 1
Relative Density (H₂O = 1): 1.07- 1.105	Vapor Pressure (mm Hg @ 68°F): No Data

Material Density Lbs./Gal: 8.91 - 9.20	Solubility in Water: Insoluble
%Volatiles by Weight: 52.92- 58.1	Evaporation Rate: No Data Ph: slower than ether
VOC: lbs/gal: 5.34 g/L: 642	Appearance/Odor: Viscous Liquid
Photo chemically reactive: Yes	

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable under normal conditions.	Conditions to avoid: Excessive heat. Ignition sources, sparks and open flame.
Hazardous Polymerization: Will not occur.	Materials to avoid: Strong acids and bases. Strong oxidizing agents and reducing agents.
Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gases and vapors. CO ₂ , CO, and other oxides may be generated as products of combustion.	

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity Data:	
Aliphatic Hydrocarbon CAS# 8052-41-3	Oral LD50 Rat: >5g/kg
Aromatic Hydrocarbon CAS# 64742-95-6	Oral LD50 Rat: 4700 mg/kg Dermal; LD50 Rabbit 4ml/kg, Inhalation: LC50 Rat: 3670 ppm 4 hours.
Solvent Naphtha (Petroleum) 64742-88-7	Oral LD50 Rat > 2000 mg/kg Dermal LD50 > 2000 mg/kg Inhalation LC50 Rat = > 2000 mg/kg
*1,2,4 Trimethylbenzene 95-63-6	Oral LD50 Rat 3400mg/kg, 8970 mg/kg Rat Dermal LD50 Rabbit 3160 mg/kg Inhalation LC50 Rat 18 g/m3 4 h
Ethylene glycol monopropyl ether 2807-30-9	Oral LD50 Rat 3089 mg/kg Dermal LD50 Rabbit 960 µL/kg
Ethyl alcohol 64- 17-5	Oral LD50 Rat 7060 mg/kg
*1,3,5- Trimethylbenzene (contaminant) 108-67-8	Oral LD50 Rat 8970 mg/kg 50000 mg/kg Rat

XII. ECOLOGICAL INFORMATION

As with all products and chemicals, this product should <u>not</u> be released into the environment.	
Componets of Material:	
Aromatic Hydrocarbon CAS# 64742-95-6	Fresh water Fish: 96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/ L Water Flea: 48 Hr EC50 Daphnia magna: 6.14 mg/ L
1,2,4- Triemethylbenzene (contaminant) 108-67-8	Fresh water Fish: 96 Hr LC50 Pimephales promelas: 7.72 mg/ L (flow through) Water Flea: 48 Hr EC50 Daphnia magna: 6.14 mg/ L
Ethyl alcohol 64- 17-5	Fresh water Fish: 96 Hr LC50 Oncorhynchus mykiss: 12900 mg/ L (flow through) 30 days old 96 Hr LC50 Pimephales promelas: 14.2mg/ L Water Flea: 48 Hr EC50 Daphnia magna: 9268mg/ L : 24Hr EC50 Daphnia magna: 10800 mg/ L

1,3,5- Trimethylbenzene (contaminant) 108-67-8

Fresh water Fish: 96 Hr LC50 Pimephales promelas: 3.48 mg/ L, 96 Hr LC50 Pimephales promelas: 7.72 mg/ L (flow through)

Water Flea: 24 Hr EC50 water flea: 50 mg/ L

Cumene (contaminant) 98-82-8

Fresh water Algae: 72 Hr EC50 Selenastrum capricornutum: 2.6 mg/ L

Fresh water Fish: 96 Hr LC50 Oncorhynchus mykiss: 4.8mg/ L (flow through)

Water Flea: 48 Hr EC50 water flea: 0.6 mg/ L

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility in Environmental media: No information available.

XIII. DISPOSAL INFORMATION

Waste Disposal Method: This product and its container may be incinerated or land filled at a licensed facility in accordance with local, state, and federal regulations.

XIV. TRANSPORT INFORMATION

Flammability Classification: Flammable Liquid

OSHA: Class I C

US DOT (Ground): Printing Ink 3, UN1210, PG III

IATA ICAO (Air): Printing Ink 3, UN1210, PG III

IMDG/ IMO (Sea): Printing Ink 3, UN1210, PG III

XV. REGULATORY INFORMATION

SARA Title III Section 313:

This material contains chemicals subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act.

<u>Chemical</u>	<u>CAS#</u>	<u>%</u>	<u>SARA 313 Threshold Value</u>
*1,2,4 Trimethylbenzene	95-63-6	< 5.0	1.0
Ethylene glycol monopropyl ether	2807-30-9	< 5.0	1.0
Cumene (contaminant)	98-82-8	< 3.0	1.0

Clean Air Act - Hazardous Air Pollutants (HAP):

This product contains the following chemicals listed as HAP under the U.S. Clean Air Act Section 112 (40 CFR 61)

<u>Chemical</u>	<u>CAS#</u>	<u>%</u>
Ethylene glycol monopropyl ether	2807-30-9	< 5.0
Cumene (contaminant)	98-82-8	1 – 3

TSCA Section 8(b) Inventory Status:

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

OSHA (Occupational Safety & Health Administration) Hazard Communication Standard, 29 CFR 1910.1200:

This product is considered to be a hazardous substance under OSHA regulations.

U.S. State Regulations

California Proposition 65:


This product contains a chemical known by the state of California to cause cancer and/or reproductive harm.

<u>Component</u>	<u>CAS #</u>	<u>Weight %</u>
Lead	7439-92-1	Trace amounts
Mercury	7439-97-6	Trace amounts
Arsenic	7440-38-2	Trace amounts
Cadmium and compounds (as Cd)	7440-43-9	Trace amounts

Ethyl benzene (contaminant)	100-41-4	< 0.06		
Ethyl alcohol	64-17-5	< 3.0		
Toluene	108-88-3	Trace amounts		
Benzene	71-43-2	Trace amounts		
State Right - Know				
Components			New Jersey	Pennsylvania
			Massachusetts	Rhode Island
Petroleum Distillate		NJ, PA, MA, RI.		
Limestone		NJ, PA., MA, RI		
*1,2,4 Trimethylbenzene		NJ, PA., MA, RI		
Ethylene glycol monopropyl ether		NJ, PA.,		
Ethyl alcohol		NJ, PA, MA, RI.		
1, 3, 5- Trimethylbenzene (contaminant)		NJ, PA, MA, RI.		
Cumene (contaminant)		NJ, PA, MA, RI.		
WHMIS (Workplace Hazardous Materials Information System)				
Classification (Canada):				
B2: Flammable Liquid				
B3: Combustible Liquid				
D1B: Material causing immediate and serious toxic effects, toxic material				
D2A: Material causing other toxic effects, very toxic material				
D2B: Material causing other toxic effects, toxic material				
Stoddard solvent		B3, D2B		
Petroleum Naphtha		B3, D2B		
Limestone		D2A		
*1,2,4 Trimethylbenzene		B3		
Ethylene glycol monopropyl ether		B3, D1B D2B,		
Diatomaceous earth		D2A		
1, 3, 5- Trimethylbenzene (contaminant)		B3		
Cumene (contaminant)		B2		

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.

X	Ask supervisor or safety specialist for handling instructions.	
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