Material Safety Data Sheet # 174

For Printing Inks and related Materials OSHA Hazard Communication Standard, 29 CFR 1910.1200

Date of preparation:	5/7/97
Updated:	3/24/2011
Supersedes	1/28/09
MSDS #:	174

I. PRODUCT IDENTIFICATION				
Manufacturer: Gans Ink and Supply Co, Inc.	HMIS HAZARD IDENTIFICATION			
Address: 1441 Boyd Street				
Los Angeles, CA 90033				
	Health 1			
Emergency phone: (323) 264-2200	Flammability 1			
	Reactivity 0			
	Personal C			
	Protection			
Product Class: W.B. Silkscreen Additive	Manufacturer's code: S-1317, V-5150, 00-300,			
	S-1335			
Trade Name: Waterbased Silkscreen Extender				

II. COMPOSITION / INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
		70		Units
2-(Dimethylamino) Ethanol-	108-01-0	1 -5	OSHA PEL	Not Established
			ACGIH/ TWA TLV	Not Established
Petroleum distillate	64742-54-7	1 -5		ng/m3
				ng/m3 ng/m3
Triethylamine	121-44-8		OSHA PEL/TWA 10 j EL 15 ppm : 60 mg/m3 GIH TLV/TWA 1ppn s	TWA25 ppm: 100 mg/m3

III. HEALTH HAZARD INFORMATION

Effects of Overexposure

Inhalation: Inhalation may cause respiratory tract irritation, throat pain and cough. Inhalation of high vapors may cause symptoms like headaches, dizziness and fatigue, nausea and vomiting. Reports have associated repeated and prolonged occupation exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Skin Contact: Avoid skin contact. This product may cause irritation and / or dermatitis. Prolonged or repeated contact with liquid may cause defatting resulting in dryness, chapping, blistering and redness. Persons with pre-existing skin or lung disorders may be more susceptible to the effects of this material. Repeated and prolonged overexposure and/or individual sensitivity may increase the potential for and degree of adverse health effects.

Eye Contact: Avoid eye contact. This product may cause irritation including burning, tearing, swelling, and redness.

Ingestion: Do not ingest. Harmful or fatal if swallowed. Ingestion may cause gastrointestinal tract irritation, nausea, vomiting, and diarrhea

IV. FIRST AID PROCEDURES

Emergency & First Aid Procedures

Eyes: Immediately flush eyes with large amounts of water and continue flushing for 15 minutes until irritation subsides. If wearing contact lenses, remove and continue flushing for at least 15 minutes. If irritation persists, have eyes examined by medical personnel, seek medical attention.

Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. Use a mild soap if available. If redness or irritation occurs, seek medical attention.

Inhalation: Remove victim from exposure. 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 immediate medical attention.

Ingestion: DO NOT induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious person.

V. FIRE AND EXPLOSION DATA

Flash Point ° F : > 200 (PMCC) (93C)		Auto-ignition Temperature °F: No Data	
Flammable Limits in Air (%	Lower Limit: N	o Data	Upper Limit: No Data
Volume)			

Extinguishing Media: Use water spray, foam, CO_2 , or dry chemical extinguishing media. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Fire Fighting Procedures: Fire fighters wear self contained breathing apparatus pressure- demand and full protective gear. Water may be used to cool containers exposed to heat or flame.

Unusual Fire & Explosion Hazard: Isolate from heat, electrical equipment, sparks, and open flame. Keep containers tightly closed. Fire or intense heat may cause violent rupture of containers. Fumes released on burning are toxic and dangerous. Vapors may be heavier than air and can travel to a source of ignition then flash back.

Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and other oxides may be generated as products of combustion.

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Remove all sources of ignition. Ventilate area. Avoid breathing vapors. Harmful or fatal is swallowed. Contain release with inert absorbent material such as sand, earth, or vermiculite. Transfer to a container for disposal according to state, local or national regulations. Use non-sparking tools to place material in appropriate container for disposal. Smoke in designated areas only.

Do not allow to enter sewers, drains or waterways.

VII. HANDLING AND STORAGE

Handling and Storage: Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. Harmful or fatal if swallowed. Store in tightly closed containers in a cool, well-ventilated area. Remove and wash contaminated clothing before reuse. Discard contaminated shoes. When using Do Not smoke. Keep away or remove from all sources of ignition, open flame, heat. Avoid prolonged overexposure to excessive cold. Protect from freezing. Take notice of labels and material safety data sheets for the working chemicals.

Other Precautions: For industrial use only. Do not ingest. 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. Smoke in designated areas only.

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: Respiratory protection is not required under conditions of normal use. 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: Use neoprene, nitrile or other protective gloves and aprons resistant to solvents listed in section II. Safety showers are recommended. Prevent prolonged skin contact with contaminated clothing.
Eye: Avoid contact with eyes. Use splash proof goggles, face shield or safety glasses. Eyewash stations are recommended.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range ° F : > 212 °F / > 100 °C	Vapor Density (Air = 1): > 1 pH: 4-9	
Relative Density (H ₂ O = 1): 1.07 – 1.13	Vapor Pressure (mm Hg @ 68°F): No Data	
Material Density Lbs./Gal: 8.92 – 9.41	Solubility in Water: Soluble	
%Volatiles by Weight: 23.4	Evaporation Rate: Slower than ether.	
	Freezing Point: 0 °C/ 32 °F	
VOC: lbs/gal: 2.20 Max g/L: 264.4	Appearance/Odor: Viscous Liquid	
	Photochemically Reactive: No	

X. STABILITY AND REACTIVITY INFORMATION		
Stability (Thermal, Light, etc.): Stable under	Conditions to avoid: Excessive heat, flames, sparks	
normal conditions.	and ignition sources. Avoid prolonged exposure to	
	excessive heat or cold. Do Not freeze.	
Hazardous Polymerization: Will not occur.	Materials to avoid: Strong acids, bases, oxidizing	
	agents, reducing agents, and reactive chemicals.	
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

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).

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Mutagen Effects:
Teratogenicity:
Reproductive Toxicity:

No Data No Data No Data No Data

Acute Toxicity

2-(Dimethylamino) ethanol Oral LD50 (Rat) 1803 mg/m3 Dermal LD50 (Rabbit) 1370 μL/ kg Inhalation: LC50 6.1 mg/L (Rat) 4 hr 1641ppm (Rat) 4h

Petroleum Distillates Oral LD50 (Rat) 2000 mg/kg Dermal LD50 (Rabbit) 2000mg/kg Inhalation LC50 (Rat) 2.18 mg/L 4 hr

Triethylamine Oral LD50 (Rat) 460 mg/kg Dermal LD50 (Rabbit) 416 mg/kg 570 µL/kg (Rabbit) Inhalation LC50 (Rat) 0.42 1 hr (Rat) 3496 ppm 1 hr

XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time. As with all chemicals and products, do not allow to enter waterways, drains or sewers.

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.

XIV. TRANSPORT INFORMATION				
Flammability Classification				
OSHA:	Class III			
DOT:	Not Regu	lated		
ICAO / IATA:	-		he meaning of transport regulations	
IMDG / IMO:			he meaning of transport regulations.	
	XV. R	EGULATORY INFO	DRMATION	
SARA Title III Section 313:				
		to the reporting require	ements of the SARA Superfund	
Amendments and Reauthor		1 0 1	1	
Chemical	CAS #	<u>%</u>	SARA 313 – Threshold Values	
Triethylamine	121-44-8	1 - 5	1.0	
TSCA Section 8(b) Invent All component(s) of this pro		r exempt or listed on t	he TSCA Inventory.	
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) This product contains the following HAPs.				
<u>Chemical</u>	<u>CAS #</u>	<u>%</u>		
Triethylamine	121-44-8	1-5		
U.S. State Regulations				
California Proposition 65: This product contains a chemical(s) known by the state of California to cause cancer and/or reproductive harm.				
<u>Chemical</u>	CAS#	_%		
Propylene oxide	75-56-9	Trace amount	t	
Benzene	71-43-2	Trace amount	-	
Ethylene oxide	75-21-8	Trace amount		
State Right –to- Know				
2-(Dimethylamino) ethanol	0			
Triethylamine	Ne	ew Jersey, Pennsylvan	ia, Massachusetts, Rhode Island	
Chemicals not listed	Chemicals <u>not</u> listed Minnesota, Florida			
Canada WHMIS Classifications of components: 2-(Dimethylamino) ethanol B3, D1B, E				

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.