

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>1</td></tr> <tr><td>Flammability</td><td>3</td></tr> <tr><td>Reactivity</td><td>1</td></tr> <tr><td>Personal Protection</td><td>C</td></tr> </table>	Health	1	Flammability	3	Reactivity	1	Personal Protection	C
Health	1								
Flammability	3								
Reactivity	1								
Personal Protection	C								
Product Class: Defoamer	Manufacturer's code: S-1866								
Trade Name: Non Silicon fs Defoamer									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Isopropanol	67-63-0	40 – 70	ACGIH STEL/ TLV OSHA / TWA	500 ppm 400 ppm
Ethylene Glycol	107-21-1	10 – 30	ACGIH CEIL / TLV OSHA / PEL	50 ppm 50 ppm
Tetramethyl-5-decyne-4,7 -diol,2,4,7,9-	126-86-3	10 - 30	Not Established	

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Inhalation of excessive concentrations of vapors or mists may cause irritation of nose and throat. Exposure of high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness, and death.
Skin Contact: Avoid skin contact. This product may cause skin irritation. May be absorbed through the skin with possible systemic effects. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. Pre-existing skin conditions may make the skin more susceptible and facilitate uptake by this route. Chronic exposure may produce skin effects.
Eye Contact: Avoid eye contact. One or more components of this product are an eye irritant. Direct contact with the liquid or exposure to vapors or mists, may cause stinging, tearing, and redness, and possible eye damage.
Ingestion: Do not ingest. 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.
Warning: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as Solvent or Painters Syndrome). Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

IV. FIRST AID PROCEDURES

Emergency & First Aid Procedures

Eyes: Immediately flush eyes with large amounts of water and continue flushing for 15 minutes. Seek immediate medical attention, preferably from an ophthalmologist.
Skin: Remove contaminated clothing. If this product comes in contact with skin, immediately wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. Wash clothing before future reuse.
Inhalation: Inhalation of excessive concentrations of vapors or mists may cause irritation of nose and throat. Exposure of high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness, and death. If any of these symptoms occur, remove victim from exposure. If breathing has stopped or is irregular, administer artificial respiration and supply oxygen. If victim is unconscious, remove to fresh air and seek immediate medical attention.
Ingestion: (Swallowing) Can cause drowsiness, unconsciousness, and death. Give large quantities of water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
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 of aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration.

V. FIRE AND EXPLOSION DATA

Flash Point °F: < 100 °F		Auto-ignition Temperature °F: No Data	
Flammable Limits in Air (% Volume)	Lower Limit: No Data	Upper Limit: No Data	
Extinguishing Media: Use a universal type foam, CO ₂ , or dry chemical extinguishing media. Water may be used to cool exposed surfaces or personnel.			
Special Fire Fighting Procedures: The use of self – contained breathing apparatus is recommended for fire fighters. Water may be unsuitable as an extinguishing medium, but helps by keeping adjacent containers cool. Avoid spreading burning liquid with water.			
Unusual Fire & Explosion Hazard: Extremely volatile material, gives off vapors, which can travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, electric motors, or other sources of ignition. “Empty” containers retain product residue and are dangerous. Avoid sparks and all other sources of ignition. Empty drums should be drained, bunged, and promptly returned to a drum reconditioner, or properly disposed of All five-gallon pails and larger containers should be grounded / and or bonded when material is transferred.			

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Stay upwind and away from spill unless wearing protective equipment. Stop and / or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Cover with inert material to reduce fumes. Keep out of waterways, contact fire authorities. Notify local health and pollution control agencies.
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VII. HANDLING AND STORAGE

Handling and Storage: Use and store this material in well-ventilated area. Keep container tightly closed when not in use. Keep away from all sources of ignition, heat, open flame, sparks and light. Store only in an approved explosion proof area. Empty drums should be drained, bunged, and promptly returned to a drum reconditioner or properly disposed of. Empty containers retain product residue and are very dangerous. All five-gallon pails and larger containers should be grounded / and or bonded when material is transferred. 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.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Requirements: General mechanical ventilation may be sufficient to keep product vapor concentrations within specified time- weighted TLV ranges..
Personal Protective Equipment
Respirator: Approved respiratory protective equipment must be used when vapors or mists concentrations exceed applicable standards.
Skin: The use of chemical resistant gloves which are impermeable to the specific material handled is advised to prevent skin irritation and absorption.
Eye: Use approved eye protection to safeguard against potential eye contact, irritation, and injury. Use safety glasses, goggles or face shield to safeguard against potential eye contact, irritation, and injury.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: 82- 90 °F	Vapor Density (Air = 1): > 4.5 Est
Relative Density (H₂O = 1): 0.90	Vapor Pressure: 33mm Hg @ 68°F
Material Density Lbs./Gal: 7.50	Solubility in Water: Soluble
%Volatiles by Weight: 96.9	Evaporation Rate: > Water Photo reactive: No
VOC: lbs/gal: 7.27 g/L: 872.1	Appearance/Odor: Clear Liquid / Alcohol Odor

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	Conditions to avoid: Excessive heat. Sources of ignition, open flame, sparks,
Hazardous Polymerization: Will not occur.	Materials to avoid: Strong Acids
Hazardous Decomposition Products: 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).	
Mutagen:	No Data
Teratogen:	No Data
Reproductive Toxicity:	No Data

XII. ECOLOGICAL INFORMATION

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

Waste Disposal Method: Dispose of material in accordance with local, state, and federal regulations.

XIV. TRANSPORT INFORMATION

Flammability Classification:	Flammable Liquid
OSHA:	Class I C
DOT Proper Shipping Name (Ground):	Flammable Liquid, n.o.s. (Isopropyl Alcohol)
CLASS:	3
UN ID:	UN 1993
Packing Group:	PGII
IMDG Proper Shipping Name (Ocean):	Flammable Liquid n.o.s. Isopropyl Alcohol
CLASS:	3
UN ID:	UN 1219
Packing Group:	PGII

ICAO / IATA Proper Shipping Name (Air): Flammable Liquid n.o.s. Isopropyl Alcohol
CLASS: 3
UN ID: UN 1993
Packing Group: PGII

TDG Proper Shipping Name (Ground): Flammable Liquid n.o.s. Isopropyl Alcohol
CLASS: 3
UN ID: UN 1993
Packing Group: PGII

XV. REGULATORY INFORMATION

SARA Title III Section 313:

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

<u>Chemical</u>	<u>CAS #</u>	<u>%</u>
Ethylene Glycol	107-21-1	10 - 30
Isopropanol	67-63-0	40 - 70
Tetramethyl-5-decyne-4,7 -diol,2,4,7,9-	126-86-3	10 - 30

SARA (Superfund Amendments and Reauthorization Act of 1986) Title III:

SARA Section 302 - Extremely Hazardous Substances (EHS):

This product does not contain any components regulated under Section 302 (40 CFR 355) as EHS.

SARA Section 304 – CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):

This product contains a component regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification (“CERCLA” List).

<u>Chemical</u>	<u>CAS #</u>	<u>RQ</u>
Ethylene Glycol	107-21-1	5,000 lbs.

RCRA (Resource Conservation and Recovery Act):

Not a hazardous waste under RCRA (40 CFR 261.21).

TSCA Section 8(b) Inventory Status:

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

Clean Air Act - Hazardous Air Pollutants (HAP):

This product does not contain any HAP, as defined by the U.S. Clean Air Act Section 112 (40 CFR 61)

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.

C	Safety Glasses Gloves Apron	
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