

Material Safety Data Sheet # 129
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

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 MSDS #: 129

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	
	Health	2
	Flammability	1
	Reactivity	1
	Personal Protection	B
Product Class: Dry OS Water Soluble Ink	Manufacturer's code: 87321, X101356	
Trade Name: Dry OS Pen Reactive Ink		

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Potassium Iodate	7758-05-6	5.2	OSHA / PEL ACGIH/ TWA	Not Established Not Established
Glycerine	56-81-5	57.0	OSHA Z1 5mg/m3 Respirable fraction OSHA Z1 15mg/m3 Total dust ACGIH / TWA 10mg/m3 mist	

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: May be mildly irritating. If heated or sprayed as an aerosol, airborne material may cause upper respiratory irritation.
Skin Contact: May be mildly irritating only after prolonged and repeated contact. Symptoms may include redness, drying, cracking or burning of skin. It is unlikely to result in harmful effects during safe handling and use. Pre-existing skin conditions may make the skin more susceptible and facilitate uptake by this route.
Eye Contact: Avoid eye contact. May be mildly irritating to the eyes. Exposure to high concentrations of vapors may be irritating to the eyes.
Ingestion: Material is of low oral toxicity. Signs and symptoms of excessive exposure may be central nervous system effects and increased blood sugar levels.

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 irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. Launder contaminated clothing before reuse.
Inhalation: 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. 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.
Ingestion: Do not induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious person. Place person on left side with the head down.
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: 351 °F PMCC	Auto-ignition Temperature °F: 739 °F (393 C)	
Flammable Limits in Air (% Volume)	Lower Limit: Not Determined	Upper Limit: Not Determined
Extinguishing Media: Use "alcohol resistant" foam, CO ₂ , water spray or dry chemical extinguishing media.		
Special Fire Fighting Procedures: Do not enter confined fire space without proper protective equipment including NIOSH-approved self-contained breathing apparatus. Do not direct a solid stream of water or foam into hot burning pools of liquid since this may cause frothing and increase fire intensity. Water may be used to cool containers exposed to heat or fire.		
Unusual Fire & Explosion Hazard: May form acrolein, Aldehydes, carbon dioxide and carbon monoxide, nitrogen oxides (NO _x).		

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Cover with an absorbent material such as vermiculite, sand, dirt etc. soak up. Scrape up with trowel or scoop and place in a suitable container. Do not allow to enter sewers, drains or waterways.
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VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool, well-ventilated area. Do not store below 64 ° F. Should be kept above 64 °F and below 130 °F. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. Consumption of food and beverages should be avoided in work areas.
Other Precautions: For industrial use only. Do not ingest. Always wash hands and face with soap and water before eating, drinking, and smoking.

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: No skin protection is required for single, short duration exposures. For prolonged exposures, use impervious synthetic rubber clothing (boots, gloves, etc.) over parts of the body subject to exposure
Eye: Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face or splash-proof safety goggles.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: 554 ° F	Vapor Density (Air = 1): 3.1
Relative Density (H₂O = 1): 1.01	Vapor Pressure (mm Hg @ 68°F): <.01
Material Density Lbs./Gal: 8.41	Solubility in Water: Soluble
% Volatiles by Weight: < 0.4	pH: No Data Evaporation Rate: No Data
VOC: lbs/gal: .033 g/L: 3.94	Appearance/Odor: Colored viscous liquid, mild odor

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	Conditions to avoid: Excessive heat, direct sunlight
Hazardous Polymerization: Will not occur.	Materials to avoid: Strong oxidizing agents, strong bases.
Hazardous Decomposition Products: Thermal decomposition may yield acrolein, Aldehydes, carbon dioxide and carbon monoxide.	

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
Glycerine 56-81-5 Oral: LD50 Rat; 12, 6000 mg/kg Inhalation: LC50 Rat: > 570 mg/m ³ , 1 h Dermal: LD50 Rabbit; > 10 g/kg	

XII. ECOLOGICAL INFORMATION

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

Flammability Classification:	
OSHA:	Class III B
DOT (Ground):	Not Regulated
IATA (Air):	Not Regulated
IMDG (Sea):	Not Regulated

XV. REGULATORY INFORMATION

SARA Title III Section 313: This material Does Not contain any chemicals subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act.
TSCA Section 8(b) Inventory Status: All component(s) of this product are either exempt or 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 contain any chemicals known to the state of California to cause cancer or reproductive harm

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.

B

Safety Glasses
Gloves

