

**Material Safety Data Sheet # 234**  
**For Printing Inks and related Materials**  
**OSHA Hazard Communication Standard, 29 CFR 1910.1200**

Date of preparation: 1/11/05  
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 MSDS#: 234

**I. PRODUCT IDENTIFICATION**

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033  Emergency phone: (323) 264-2200	<p align="center"><b>HMIS HAZARD IDENTIFICATION</b></p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Flammability</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> <tr> <td>Personal Protection</td> <td>B</td> </tr> </table>	Health	1	Flammability	1	Reactivity	1	Personal Protection	B
Health	1								
Flammability	1								
Reactivity	1								
Personal Protection	B								
<b>Product Class:</b> Lithographic Printing Ink	<b>Manufacturer's code:</b> A109525, X102656, X101344, etc.								
<b>Trade Name:</b> Os Coin Reactive Ink									

**II. HAZARDOUS/ INGREDIENTS**

Material	CAS #	%	Exposure Limits	Units
Petroleum Distillates	64741-44-2	5.2	OSHA/ PEL 5mg/m3 oil mist ACGIH / TLV 5mg/m3 TWA oil mist	
This product contains proprietary ingredients that are not required to be listed in Section II under OSHA Hazard Communication Standard 29 CFR 1928 (i), Trade secrets.				
This product is considered <b>Non-Hazardous</b> by definition of OSHA Hazard Communication Standard 29 CFR 1910.1200.				

**III. HEALTH HAZARD INFORMATION**

Effects of Overexposure
<p><b>Inhalation:</b> Primary route of entry. Excessive inhalation may cause headaches, dizziness and nausea or irritation of nasal and respiratory tract. Acute overexposure may result in irritation of the throat and lungs. Chronic exposure to high concentrations of aerosols or mists to laboratory animals has resulted in non-specific symptoms related to the nervous system, gastrointestinal tract, and lungs.</p>
<p><b>Skin Contact:</b> Avoid skin contact. Primary route of entry. This product is non-irritating to the skin upon direct contact. 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><b>Eye Contact:</b> Avoid eye contact. This product may be slightly irritating to the eyes upon direct contact. 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.</p>
<p><b>Ingestion:</b> Do not ingest. Ingestion of small quantities is usually nonfatal unless aspiration occurs. 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

<b>Emergency &amp; First Aid Procedures</b>
<b>Eyes:</b> Immediately flush eyes with large amounts of water and continue flushing for 15 minutes until irritation subsides. If irritation persists, seek medical attention.
<b>Skin:</b> Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention.
<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. 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.
<b>Ingestion:</b> Do not induce vomiting. Seek immediate medical attention.
<b>Notes to Physician:</b> 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

<b>Flash Point °F:</b> > 440 F	<b>Auto-ignition Temperature °F:</b> No Data
<b>Flammable Limits in Air</b>	<b>Lower Limit:</b> No Data <b>Upper Limit:</b> No Data
<b>Extinguishing Media:</b> Use water fog, foam, CO <sub>2</sub> , or dry chemical extinguishing media.	
<b>Special Fire Fighting Procedures:</b> Fire fighters use self contained breathing apparatus. Water may be used to cool containers exposed to heat or flame, also to prevent pressure buildup and possible explosion when exposed to extreme heat.	
<b>Unusual Fire &amp; Explosion Hazard:</b> Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and other oxides may be generated as products of combustion.	

#### VI. ACCIDENTAL RELEASE

<b>Steps to be taken in event of spill or release:</b> Absorb with inert material such as vermiculite, clay or dirt. Scrape up with trowel or scoop and place in a suitable container. Clean up with a suitable solvent.
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#### VII. HANDLING AND STORAGE

<b>Handling and Storage:</b> Store in containers in a cool, well-ventilated area. Keep containers closed when not in use. Keep away from excessive heat, open flame or sources of ignition. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. Always wash hands and face with soap and water before eating, drinking, and smoking.
<b>Other Precautions:</b> For industrial use only. Do not ingest. Consumption of food and beverages should be avoided in work areas where hydrocarbons are present.

#### VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Ventilation Requirements:</b> 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.
<b>Personal Protective Equipment</b>
<b>Respirator:</b> 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.
<b>Skin:</b> 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
<b>Eye:</b> If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety glasses or goggles.

#### IX. PHYSICAL AND CHEMICAL DATA

<b>Boiling Range °F:</b> > 450 F	<b>Vapor Density (Air = 1):</b> > 1.0
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<b>Relative Density (H<sub>2</sub>O = 1):</b> 1.54 – 2.74	<b>Vapor Pressure (mm Hg @ 70°F):</b> No Data
<b>Material Density Lbs./Gal:</b> 12.83 – 22.82	<b>Solubility in Water:</b> Insoluble
<b>% Volatiles by Weight:</b> 10.2 max.	<b>% Solids by Weight:</b> 90.0
<b>VOC: lbs/gal:</b> 2.33 <b>g/L:</b> 279.5	<b>Appearance/Odor:</b> Cream colored oily paste

#### X. STABILITY AND REACTIVITY INFORMATION

<b>Stability (Thermal, Light, etc.):</b> Stable	<b>Conditions to avoid:</b> Excessive heat, sources of ignition or open flame.
<b>Hazardous Polymerization:</b> Will not occur.	<b>Materials to avoid:</b> Strong oxidizers.
<b>Hazardous Decomposition Products:</b> CO <sub>2</sub> , CO, and other oxides may be generated as products of combustion.	

#### XI. TOXICOLOGICAL INFORMATION

<b>CARCINOGEN:</b> This product or the components of this product have not been identified as a carcinogen by OSHA or the National Toxicology Program (NTP), or the International Agency for Research Cancer (IARC).	
<b>Mutagen:</b>	No Data
<b>Teratogen:</b>	No Data
<b>Reproductive Toxicity:</b>	No Data

#### XII. ECOLOGICAL INFORMATION

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

<b>Waste Disposal Method:</b> 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

<b>Flammability Classification:</b>	
<b>OSHA:</b>	Class III B
<b>DOT (Ground):</b>	Not Regulated
<b>IATA / ICAO (Air):</b>	Not Regulated
<b>IMO / IMDG (Sea)</b>	Not Regulated
<b>TDG (Canada):</b>	Not Regulated
<b>Not classified as dangerous in the meaning of transport regulations.</b>	

#### XV. REGULATORY INFORMATION

<b>SARA Title III Section 313:</b> This material Does Not contain chemicals subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act.
<b>TSCA Section 8(b) Inventory Status:</b> All component(s) of this product are either exempt or listed on the TSCA Inventory.
<b>FDA:</b>

This product is not registered with the FDA.

**U.S. State Regulations**

**Coalition of Northeast Governors (CONEG) Legislation:**

This product is in compliance with CONEG (i.e. total cadmium, hexavalent chromium, lead and mercury < 100 ppm)

**California Proposition 65:**

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

**Chemical**

**CAS #**

Benzene

71-43-2

Cancer, Birth Defect

Trace amount

**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.