

Material Safety Data Sheet # 360
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Date of preparation: 11/7/07
MSDS # 360

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>1</td></tr> <tr><td>Reactivity</td><td>1</td></tr> <tr><td>Personal Protection</td><td></td></tr> </table>	Health	1	Flammability	1	Reactivity	1	Personal Protection	
Health	1								
Flammability	1								
Reactivity	1								
Personal Protection									
Product Class: Lithographic Printing Ink	Manufacturer's code: A134800								
Trade Name: Low VOC Metallic Silver									

II COMPOSITION / INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Aluminum	7429-90-5	10 – 20	OSHA/ PEL 15 mg/m3 TWA (total dust); TWA/ 5 mg/m3 (respirable fraction) ACGIH TLV-TWA 10 mg/m3 TWA (metal dust)	
Distillates, Petroleum, Acid-treated Middle	64742-13-8	10 – 20		

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Call a physician if symptoms develop or persist. Prolonged exposure may cause chronic effects.
Skin Contact: Avoid skin contact. Prolonged exposure may cause chronic effects. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening.
Eye Contact: Avoid eye contact. This product may be irritating to the eyes upon direct contact.
Ingestion: Do not ingest. Ingestion may cause gastrointestinal 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 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.
Inhalation: Remove victim from exposure. Remove to fresh air and seek medical attention.
Ingestion: Do not induce vomiting. Have victim rinse mouth thoroughly with water. Seek immediate medical attention. Show this safety data sheet to doctor in attendance.

V. FIRE AND EXPLOSION DATA

Flash Point °F: >200	Auto-ignition Temperature °F: 464 (240°C)	
Flammable Limits in Air	Lower Limit: No Data	Upper Limit: No Data
Extinguishing Media: Use dry chemical extinguishing media.		
Special Fire Fighting Procedures: Firefighters should wear full protective gear.		
Unusual Fire & Explosion Hazard: Combustible by OSHA criteria. May include oxides of oxides of carbons. Combustible material may burn but does not ignite readily.		

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Keep unnecessary personnel away. Ventilate closed spaces before entering. Prevent further leakage or spillage if safe to do so. Never return spills in original containers for re-use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area.

VII. HANDLING AND STORAGE

Handling and Storage: Do not handle or store near an open flame, heat or other sources of ignition. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat and flame.

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: 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. Ensure adequate ventilation, especially in confined areas.

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.

Skin: Avoid contact with skin. Wear suitable protective clothing. Wear protective gloves.

Eye: Wear safety glasses with side shields. Face shield. Avoid contact with eyes.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: 491 (255 C) calculated	Vapor Density (Air = 1): No Data
Relative Density (H₂O = 1): 1.13	Vapor Pressure (mm Hg @ 70°F): No Data
Material Density Lbs./Gal: 9.43	Solubility in Water: Insoluble
%Volatiles by Weight: 12.61	
VOC: Lbs/Gal: 1.19 g/L 143	Appearance/Odor: Colored paste

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable at normal conditions.	Conditions to avoid: Heat, flame and sparks
Hazardous Polymerization: Will not occur.	Materials to avoid: Acids, Caustics. This product is incompatible with nitrates.
Hazardous Decomposition Products: May include oxides of oxides of carbon.. Combustible by OSHA standards.	

XI. TOXICOLOGICAL INFORMATION

NIOSH - Pocket Guide - Target Organs

Routes of exposure

Aluminum 7429-90-5 respiratory system, skin, eyes

Carcinogenicity: IARC Group 2B material is present - There is limited evidence of carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals

Sensitization: Not expected to be hazardous by OSHA criteria.

Acute Toxicity: Acute LD50: 17294 mg/kg estimated, Rat, Dermal
Acute LC50: 68 mg/l/4h estimated, Rat, Inhalation

Toxicology Data – Selected LD50s and LC50s

Distillates, Petroleum, Acid-treated Middle 64742-13-8 Inhalation LC50 Rat: 4.6 mg/L/4H;
 Oral LD50 Rat: 7400 mg/kg;
 Dermal LD50 Rabbit: >2000 mg/kg

Epidemiology: Not expected to be hazardous by OSHA criteria.
Reproductive toxicity: Not expected to be hazardous by OSHA criteria.

Symptoms and target organs

Aluminum 7429-90-5 respiratory system, skin, eyes

Further Information: This product has no known adverse effect on human health.

XII. ECOLOGICAL INFORMATION

Ecotoxicity: LC50 138 mg/L estimated, Fish, 96.00 Hour
 EC50 20.63 mg/L estimated, Daphnia, 48.00 Hours,

Components of this product have been identified as having potential environmental concerns.

XIII. DISPOSAL INFORMATION

Waste Disposal Method: Dispose in accordance with all applicable regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

XIV. TRANSPORT INFORMATION

Flammability Classification: Combustible

OSHA: Class III B
DOT: Not Regulated
IATA: Not Regulated
IMDG: Not Regulated

XV. REGULATORY INFORMATION

U.S. CERCLA/ SARA – Section 313

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>	
Aluminum	7429-90-5	1.0 %	de minimis concentration dust or fume only
Country	Inventories		On Inventory yes/no
Australia	Australian Inventory of Chemical Substances (AICS)		No
Canada	Domestic Substances List (DSL)		No
Canada	Non-Domestic Substances List (NDSL)		Yes
China	Inventory of Existing Chemical Substances in China (CCS)		No
Europe	European Inventory of New and Existing Chemicals (EINECS)		No
Europe	European List of (ELINCS)		No
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)		No
Korea	Korean Inventory of Chemicals (KICS)		No
New Zealand	New Zealand Inventory		No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)		No

TSCA Section 8(b) Inventory Status:

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) State regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. State Regulations

California Proposition 65:

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - New Jersey - Right to Know Hazardous Substance List

Aluminum 7429-90-5 sn 0054 (dust and fume) ; sn 2110 (powder, coated) ; sn 2111(powder, uncoated, non- pyrophoric)

U.S. - Pennsylvania - RTK (Right to Know) List

Aluminum 7429-90-5 Environmental Hazard
Soybean Oil 8001-22-7 Present

U.S. - Rhode Island - Hazardous Substance List

Aluminum 7429-90-5 Toxic; Flammable
Soybean Oil 8001-22-7 Flammable

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 Extremely Hazardous Substance: No

Section 311 Hazardous Chemical: No

Hazard Categories:

Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

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. assume 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.