Safety Data Sheet

SECTION 1: Identification of the Substance/ Mixture and of the Company undertaking

1.1 Product Identifier

Product Name: AQ Coating Retarder
GANS Item ID: S-1861 G
SDS Number: 144
Product Type: Ink Train Retarder

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Product Use: Aqueous Ink Train Additive
1.2.2 Uses advised against: None known

1.3 Details of the supplier of the safety data sheet

Manufacturer: Gans Ink and Supply Co, Inc.
Address: 1441 Boyd Street
Los Angeles, CA 90033
Contact Person: Marco Ramos
Telephone: 323-264-2200 / 1-800 421-6167
Fax: 323-264 2916
Email: MSDS@gansink.com

1.4 Emergency telephone number:
Available only during business hours.
(323) 264-2200 Monday- Friday 7:00 A.M. – 9:00 P.M.
Available 24 Hours: Los Angeles County Fire Department / HazMat. Department

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
2.1.2: This material is hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification under CLP: Not classified
Components: Hazardous; skin, eye and respiratory irritation.
Specific target organ toxicity: Not determined

The most important adverse environmental effects: No Data available
Biodegradability (Product): No Data available
Bioaccumulation (Product): No Data available
Toxicity to fish (Product): No Data available
2.2 Label elements

Hazard Pictograms:

⚠️

**Signal Word (S):** Warning

X Irritant

**Hazard Statements:**

Causes eye irritation Eye Category 2B H320
Causes skin irritation Category 2 H315
May cause respiratory irritation, may cause irritation of the mucous membranes. Category 3 H335
May be harmful if swallowed, Category 4 H302

**Precautionary Statement:**

P261: Avoid breathing dust/vapors/mist/fumes.
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash hands thoroughly after handling.

2.3 Other hazards

None known

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substance / Mixture:

Mixture

<table>
<thead>
<tr>
<th>CAS# / EC#</th>
<th>REACH No.</th>
<th>% by weight</th>
<th>Substance Name</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-21-1</td>
<td>EC#203-473-3</td>
<td>90.0 – 100.0</td>
<td>Ethylene Glycol</td>
<td>H315, H335, H302</td>
</tr>
</tbody>
</table>

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

**Inhalation:** P304, P340 Remove victim from exposure, to fresh air and keep at rest in a position for breathing

**Skin contact:** P302, 350, Remove contaminated clothing. Wash contaminated area thoroughly with soap and water for at least 20 minutes or until material is removed.

**Eye contact:** P305, P351, P338; immediately flush eyes with large amounts of water, If easy to do, remove contact lens if worn and continue flushing for 20 minutes or until material is removed.

**Ingestion:** P301, P331, P330; Do Not induce vomiting. Gently wipe or rinse mouth with water.

#### 4.1.1 Following Inhalation:

P342; if breathing has stopped or is irregular, administer artificial respiration and supply oxygen if it is available.

#### Following skin contact:

P332, P313; Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

#### Following eye contact:

P337, P313; if irritation persists, seek medical attention.

#### Following Ingestion:

P301, P310; Seek immediate medical attention, notify poison control center or hospital.
4.2 Most important symptoms and effects, both acute and delayed
Over – exposure signs / symptoms
Ingestion: No data available.
Inhalation: No data available
Skin sensitization: No data available.

4.3 Indication of any immediate medical attention and special treatment needed.
Notes to physician: No data available.
General advice: Get medical attention if symptoms occur. Treat symptomatically.

SECTION 5: FIRE – FIGHTING MEASURES

5.1 Extinguishing Media:
Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:
In the event of fire, the following may be formed:
Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, sulfur and nitrogen oxides (NOx) may be generated as products of combustion.

5.3 Advice for fire-fighters:
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
Water may be used to cool containers exposed to heat or flame.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation. Move leaking containers to ventilated area.
Wear chemical resistant gloves, safety glasses or goggles and protective clothing.
Remove all ignition sources, heat, open flame and sparks.

6.2 Environmental precautions:
Prevent spilled material from entering the ground, water and / or air by using appropriate containment methods.
Dispose of according to local, state and Federal regulations. Do NOT flush to sewer, drains or waterways.
Advise water authority if spillage has entered into water course or drainage system

6.3 Methods for containment and cleaning up:
6.3.1 Control large spills. Dike large spills. Move containers from spill area. Ventilate area. Keep away from all ignition sources, open flame and heat. Contain and collect spillage with non-combustible absorbent material such as vermiculite, sand, dirt etc. and place in a suitable container for disposal.
Small spills: Stop leak and ventilate area. Absorb spills with non-combustible absorbent material such as vermiculite, sand etc. and place in a suitable container for disposal. Dispose of according to local, state and Federal regulations.

6.4 Reference to other sections: Refer to section 5.2 of the SDS.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:
7.1.1 Protective measures: Ensure good ventilation to maintain concentrations below the specific exposure or flammable limits. Do not eat, drink or smoke when using this product. Consumption of food and beverages should be avoided in work areas. Use only in accordance with our recommendations.

7.2 Conditions for safe storage, including incompatibilities.
Keep containers tightly closed in a dry and well-ventilated area. Store between 40 °F – 100 °F (4°C- 37 °)
Keep away from sources of ignition, open flame, heat and sparks. Keep away from oxidizing agents and
strongly acid or alkaline materials.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Exposure Guidelines

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS #</th>
<th>Exposure Limits</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>100 mg/m3 ceiling</td>
<td>ACGIH 2007-01-1</td>
</tr>
</tbody>
</table>

Immediately Dangerous to Life or Health Concentrations (IDHL): No data available.

8.2: Engineering measures

Ventilation Requirements: Adequate ventilation in accordance with good engineering practice must be provided to
maintain concentrations below the specific exposure or flammable limits. Handle only in places equipped with local exhaust
or other appropriate exhaust recommendations.

Personal protective equipment
Protective measures: Ensure that eye flushing /eye wash stations and safety showers are located close and accessible to
work place area.

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 / Hand Protection: Use gloves when handling products. Long sleeved clothing and or chemical resistant apron for
protection when handling product. Always wash hands and face with soap and water before eating, drinking, and smoking.
Safety showers are recommended.

Eye Protection: Wear plastic face shield or splash-proof safety glasses or goggles. Eye wash stations are recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Appearance: Aqueous solution
Color: Clear
Odor: Mild
pH: No data available.
Melting point/ freezing point: Not determined
Boiling point / Range: > 212 °F (> 100 °C)
Flashpoint: > 200.1 °F (> 93.4 °C)
Evaporation Rate: No Data available
Flammability (solid/ gas): Not Data
Upper/ lower flammability explosion limits: Not determined
Vapor Pressure (mm Hg @ 68°F): Not determined
Vapor Density (Air = 1): 1.100 at 77 °F (25°C)
Relative Density ($\text{H}_2\text{O} = 1$): 1.10
Solubility in Water: Soluble
n-Octanol/Water: No data available
Auto-ignition temperature: Product is not self igniting
Decomposition temperature: Not determined
Viscosity, dynamic: Not determined
Explosive properties: Not determined
Oxidizing properties: Not determined

9.2 Other Information
Density: 9.15 lb/ gal
VOC: 100.0 %
% volatile: Unknown

Non-volatile information is not a specification

SECTION 10: STABILITY AND REACTIVITY INFORMATION

10.1 Reactivity: Stable under recommended storage conditions.
10.2 Chemical Stability: Stable under normal conditions.
10.3 Possibility of hazardous reactions: Incompatible Materials: acids and bases.
10.4 Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition. Do Not store above 100 °F. or below 40 °F (4 °C – 37 °C).
10.5 Incompatible materials: Avoid strong oxidizing agents, acids and strong bases.
10.6 Hazardous Decomposition Products: CO$_2$, CO, and nitrogen oxides (NOx) may be generated as products of combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute Toxicity: No data available on product

Components:
Ethylene Glycol  107-21-1

Acute Oral (Component): No data available

Acute Dermal (Component): LD50 Rabbit
Dose: 9.53 mg/kg.

Acute Inhalation (Component): LC50 mouse
Dose: > 200 mg/l Exposure time: 2h
Skin Irritation (Component): Rabbit; Mild skin irritation

Eye Irritation (Component): Rabbit; Moderate eye irritation
Method: Draize Test

Sensitization (Component): No data available on component or product.

Carcinogenicity:
IARC: No component of this product presents at levels greater than or equal to 0.1 % is identified as probable, possible or
confirmed human carcinogen by IARC (International Agency for Research on Cancer).

OSHA: No component of this product presents at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA (Occupational Safety and Health Administration).

NTP: No component of this product presents at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP (National Toxicology Program).

ACGIH: No component of this product presents at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by ACGIH (American Conference of Governmental Industrial Hygienists).

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: No data available on complete product or components.
12.2 Persistence and degradability: No data available on complete product or components.
12.3 Bioaccumulative potential: No data available on complete product or components.
12.4 Mobility in soil: No data available on complete product or components.
12.5 Results of PBT and vPvB assessment: No data available on complete product or components.
12.6 Other adverse effects: No known adverse effects on complete product or components.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 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. Waste shall not be disposed of into sewer system, drains, and waterways or into the environment.
13.1.1 Product/ Packaging disposal: Empty containers or liners may retain some product residue, dispose of in accordance to state, local and Federal regulations. Do not re-use empty containers. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

Waste codes/ waste designations according to LoW: * If discarded in its original unused form, this product does NOT exhibit the characteristics of a RCRA hazardous waste as defined under 40CFR261.

SECTION 14: TRANSPORT INFORMATION

US DOT (Ground): Not Dangerous Goods
14.1 UN number: Not applicable
14.2 UN Proper Shipping Name: Not Hazardous Liquid
14.3 Transport hazard class: Not applicable
14.4 Packing Group: Not applicable
14.5 Environmental hazards: Not applicable

IMDG (Sea): Not Dangerous Goods
UN number: Not applicable
UN Proper Shipping Name: Not Hazardous Liquid
Transport hazard class: Not applicable
Packing Group: Not applicable
Environmental hazards: Not applicable
Marine Pollutant: No data available

ICAO/ IATA (Air): Not Dangerous Goods
UN number: Not applicable
UN Proper Shipping Name: Not Hazardous Liquid
Transport hazard class: Not applicable
Packing Group: Not applicable
Environmental hazards Not applicable
National Fire Protection: IIIB
MARPOL 73/78: No data available

SECTION 15: REGULATORY INFORMATION

TSCA Section 8(b) Inventory Status:
All component(s) of this product are listed on the TSCA Inventory.

Association (NFPA) Classification: Health:2 Fire:1 Reactivity:0

HMIS Classification: Health hazard: 2
Flammability: 1
Reactivity: 0
Personal Protective Equipment = C: Safety glasses, Gloves, Apron

OSHA Hazards: This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SARA Title III Section 313: This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1086 and 40CFR part 372.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS#</th>
<th>%</th>
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<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>100.0</td>
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Emergency Planning Community Right – To- Know (EPCRA)
Section 302 – Extremely hazardous substances: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section 311/312 – Hazard Categories: Pursuant to Section 311/312 of SARA Title III, the physical and health hazard categories for this product are identified below:
Fire Hazard – No
Sudden Release of Pressure Hazard – No
Reactivity Hazard – No
Immediate (acute) Health Hazard – YES
Delayed (chronic) Health Hazard – No

CERCLA Reportable Quantity: 5,000 lbs. Ethylene Glycol CAS#: 107-21-1

SARA 302 Reportable Quantity: This material does Not contain any components with a SARA 302 RQ.
SARA 304 Reportable Quantity: This material does Not contain any components with a section 304 EHS RQ.

Hazardous Air Pollutants: This product contains the following chemicals listed as HAP under the U.S. Clean Air Act Section 112 (40 CFR 61)

<table>
<thead>
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<tbody>
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<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>90 – 100 %</td>
</tr>
</tbody>
</table>
**U.S. State Regulations**

MA= Massachusetts Right - To – Know  
NJ= New Jersey Right – To- Know List  
PA= Pennsylvania Right- To- Know List

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<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**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.

**Canadian Environmental Protection Act:** Listed on Domestic Substance List

WHMIS Classification: D2B  
- Moderate eye irritant.  
- Moderate skin irritant.  
- Moderate respiratory irritant.

**SECTION 16: OTHER INFORMATION**

**Hazard Symbols:**  
X: Irritant

**Hazard statements**  
H 302: May be harmful if swallowed  
H315: Causes skin irritation  
H320: Causes eye irritation  
H335: May cause respiratory irritation, may cause irritation of the mucous membranes.

**Risk Phrases:**  
R22: Harmful if swallowed  
R36/37/ 38: Irritating to eyes, skin and respiratory

**Origination Date:** 4-25-2014

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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GANS INK & SUPPLY CO.
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