

SPECIAL APPLICATIONS BLACK WRITING FLUID

Date Prepared: 02-6-02

MSDS P/N 04068-004 Rev. H

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MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Iris Black Writing Fluid (04069-004)

GENERAL USE: Special Applications Black

PRODUCT DESCRIPTION: Ink Jet Writing Fluid

MANUFACTURER: **IRIS Graphics, Inc.**
3 Federal Street
Billerica, MA 01821

EMERGENCY TELEPHONE NO: 1-978-313-4747 (Mon – Fri 8:30 am – 5 pm EST)
For chemical emergency - Call Infotrac 1-800-535-5053
- Outside N. America (USA) 1-352-323-3500

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	% Wt.	CAS #	ACGIH TLV		OSHA PEL	
			ppm	mg/m ³	ppm	mg/m ³
Dye	1-5	--	--	--	--	--
1,2,3 Trihydroxy propane	10-15	56-81-5	total	15	--	10
			respirable	5	--	--

Remaining ingredients not considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200, Canadian European regulations.

3. HAZARDS IDENTIFICATION

The principal safety and health hazards when using the product are respiratory irritation brought on by inhalation of mist and allergic reactions in sensitive individuals.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation or rash develops. Remove and launder contaminated clothing before reuse.

INGESTION: If ingested, drink plenty of water and get medical attention.

INHALATION: Remove to fresh air. Get immediate medical attention if irritation or other symptoms develop.

ADVICE TO PHYSICIAN: Treat symptoms.

5. FIRE FIGHTING MEASURES

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EXTINGUISHING MEDIA: Water fog, carbon dioxide, or dry chemical

FIRE AND EXPLOSION HAZARDS: Thermal decomposition may produce toxic fumes.

FIRE FIGHTING EQUIPMENT: Wear a self-contained breathing apparatus and full protective gear.

NFPA HAZARD CODES: Health/Flammability/Reactivity 1 0 0

6. ACCIDENTAL RELEASE MEASURES

Contain spill to a small area. Pick up with absorbent material and transfer to suitable container for disposal. Keep out of sewers, streams, and waterways. Dispose of in accordance with local, state and federal requirements.

7. HANDLING AND STORAGE

Avoid contact with eyes, skin, and clothing. Avoid inhalation of mists. Keep container closed when not in use. Store above -18°C (0°F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed. If PEL/TLV is exceeded, wear an approved organic respirator.

PROTECTIVE GLOVES: Not normally required - Wear chemical resistant gloves if skin contact may occur.

EYE PROTECTION: Wear safety glasses or goggles in operations where splashing is possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

BOILING POINT: >100°C (>212°F)

VAPOR PRESSURE: Not determined

SOLUBILITY IN WATER: Complete

SPECIFIC GRAVITY: 1.04

FREEZING POINT: < 0°C (< 32°F)

pH: 7

FLASH POINT: >176°C (>350°F) Pensky Martin Closed Cup

VAPOR DENSITY (air = 1): >1

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EVAPORATION RATE (ether = 1): <1

% VOLATILE BY VOLUME: ~ 95

FLAMMABLE LIMITS: Not determined

10. STABILITY AND REACTIVITY

STABLE: Yes

INCOMPATIBILITY: Oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS: May include oxides of carbon, nitrogen, sulfur, acrolein and other toxic fumes

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

PRIMARY ROUTE OF EXPOSURE: Inhalation and skin contact

ACUTE EFFECTS

EYES: May cause eye irritation

INHALATION: Inhalation of vapors or mist in excess of the PEL/TLV may cause irritation of the respiratory tract.

SKIN: Repeated or prolonged contact may cause flaking and softening of skin.

SENSITIZATION POTENTIAL: Not known to cause sensitization

CHRONIC EFFECTS: None expected from available data.

CANCER INFORMATION: This product contains no ingredient that is listed on the IARC, NTP, or OSHA carcinogen lists.

12. ECOLOGICAL INFORMATION

Ink: 96-hr LC 50 in *Lepomis macrochirus* (bluegill): above 3000 mg/l

48-hr EC 50 in *Daphnia - magna* (water flea): above 10,000 mg/l

1,2,3 Trihydroxy propane: Aquatic toxicity rating: TL_m 96-hr: over 1000 ppm;
24-hr LC50 in goldfish: greater than 5000 mg/l

13. DISPOSAL CONSIDERATIONS

Incinerate, bury, or treat in licensed facility. Follow federal, state and local regulations.

EWC code: 080303

14. TRANSPORT INFORMATION

TDG: Not regulated

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IATA/CAO: Not regulated
ADR/RID: Not regulated
IMDG: Not regulated
U.S. DOT: Not regulated

15. REGULATORY INFORMATION

CERCLA/SUPERFUND, 40CFR 302.4: No reportable quantity (RQ) substances
TOXIC SUBSTANCES CONTROL ACT (TSCA): The ingredients of this product are all on the TSCA Inventory list.
SARA TITLE III, 313 CHEMICALS: None

16. OTHER INFORMATION

HMIS RATING: Health: 1 Flammability: 0 Reactivity: 0

CALIFORNIA PROPOSITION 65: This product contains no chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

This information is based solely on data provided by suppliers of the materials used and/or recognized technical sources, not on the mixture itself and is believed to be correct as of this date. No warranty is expressed or implied regarding the accuracy of the data.