

Material Safety Data Sheet

Iris Equipoise Black Writing Fluid / US/C



1. Chemical Product and Company Identification

Common Name : Iris Equipoise Black Writing Fluid / US/C

Synonym : Not available.

Catalog number : 07860-004; 07861-004; 07863-004; 07865-004;
07866-001; 07868-001

Area of Application : Industrial applications. Graphic Arts product.
Inkjet printing.

Supplier : Kodak Graphic Communications Canada Company
3700 Gilmore Way
Burnaby, BC, Canada V5G 4M1

Version	1
Validation Date	2005-11-16

KPG# **90951**

Emergency telephone number : **In Case of Emergency (medical/roadside) (24hrs)**

Infotrac: 1-800-535-5053

24-Hour Telephone for information:
Kodak Graphic Communications Canada Company Response Center
North America: 1-800-472-2727
International: +1-604-451-2727

2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Reactive Black Dye	70776-54-4; 70776-55-5	10-20	ACGIH TLV (United States, 1/2005). TWA: 10 mg/m ³ 8 hour/hours. Form: Mist OSHA PEL (United States, 6/1993). TWA: 5 mg/m ³ 8 hour/hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hour/hours. Form: Total dust
2) Glycerol	56-81-5	10-15	

3. Hazards Identification

Physical State and Appearance : Liquid.

Emergency Overview : CAUSES SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE EYE IRRITATION.

Routes of Entry : Dermal contact. Inhalation.

Potential Acute Health Effects

Eyes : Moderately irritating to eyes.

Skin : Irritating to skin. May cause sensitization by skin contact.

Inhalation : Moderately irritating to the respiratory system.

Ingestion : No known significant effects or critical hazards.

Potential Chronic Health Effects : **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: : Repeated skin exposure can produce local skin destruction or dermatitis.

See Toxicological Information (section 11)

4. First Aid Measures

- Eye Contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. If irritation persists, get medical attention.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. If irritation persists, seek medical attention.
- Inhalation** : Allow the victim to rest in a well-ventilated area. If irritation persists, get medical attention.
- Ingestion** : Do not induce vomiting. Have conscious person drink several glasses of water or milk. Get medical attention.

5. Fire Fighting Measures

- Flammability of the Product** : Non-flammable.
- Flash Points** : >176 °C (Closed cup) Pensky-Martens.
- Hazardous thermal (de)composition products** : These products are carbon oxides (CO, CO₂) , nitrogen oxides (NO, NO₂ etc.) , sulfur oxides (SO₂, SO₃ etc.)
- Fire Hazards in Presence of Various Substances** : Not available.
- Explosion Hazards in Presence of Various Substances** : Not available.
- Fire Fighting Media and Instructions** : **Suitable:** Use dry chemical, CO₂, water spray (fog) or foam.
Not suitable: None.
- Protective Clothing (Fire)** : Be sure to use an approved/certified respirator or equivalent.

6. Accidental Release Measures

- Small Spill and Leak** : Absorb with an inert material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- Large Spill and Leak** : Absorb with an inert material and place in an appropriate waste disposal container. Finish cleaning by flushing the contaminated surface with water and allowing it to run to the foul sewer.

7. Handling and Storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated breathing of mist or vapor. Use with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Prevent from freezing.

8. Exposure Controls, Personal Protection

- Engineering Controls** : Ventilation is normally required when handling or using this product. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection

- Eyes** : Safety glasses.
- Body** : Synthetic apron.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.
- Hands** : Impervious gloves.
- Feet** : Not applicable.

- Protective Clothing (Pictograms)** :



Personal Protection in Case of a Large Spill : Splash goggles. Lab coat. Impervious gloves. Ventilation is normally required when handling or using this product.

Product Name

1) Reactive Black Dye
2) Glycerol

Exposure Limits**ACGIH TLV (United States, 1/2005).**

TWA: 10 mg/m³ 8 hour/hours. Form: Mist

OSHA PEL (United States, 6/1993).

TWA: 5 mg/m³ 8 hour/hours. Form: Respirable fraction

TWA: 15 mg/m³ 8 hour/hours. Form: Total dust

Consult local authorities for acceptable exposure limits.

9. Physical and Chemical Properties

Physical State and Appearance : Liquid.

Odor : Not available.

Color : Black.

pH : 5 to 6 [Acidic.]

Boiling/Condensation Point : >100 °C

Melting/Freezing Point : <0 °C

Specific Gravity : 1.04 (Water = 1)

Vapor Pressure : Not available.

Vapor Density : >1 (Air = 1)

Volatility : 95% (w/w)

Evaporation Rate : <1

Dispersion Properties : See solubility in water

Solubility : Easily soluble in cold water.

10. Stability and Reactivity

Stability and Reactivity : The product is stable.

Conditions of Instability : Not available.

Incompatibility with Various Substances : Incompatible with strong oxidizing agents.

Hazardous Decomposition Products : These products are carbon oxides (CO, CO₂) , nitrogen oxides (NO, NO₂ etc.) , sulfur oxides (SO₂, SO₃ etc.)

Hazardous Polymerization : Will not occur.

11. Toxicological Information

Toxicity to Animals : **Reactive Black Dye**
LD50: Not available.
LC50: Not available.

Glycerol:

ORAL (LD50): Acute: 12600 mg/kg [Rat].

DERMAL (LD50): Acute: >10000 mg/kg [Rabbit].

Chronic Effects on Humans : Not available.

Other Toxic Effects on Humans : Hazardous in case of skin contact (sensitizer).
Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

12. Ecological Information

- Organics Readily Degradable (70%)** : Not available.
Ecotoxicity : Ecotoxicity in water (LC50): 54000 mg/l, 96 hour/hours [Fish]. (Glycerol).

13. Disposal Considerations

- Waste Information** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

14. Transport Information

- DOT Classification** : Not a DOT controlled material (United States).



- TDG Classification** : Not a TDG-controlled material.
ADR/RID Classification : Not controlled under European ADR.
IMO/IMDG Classification : Not controlled under IMDG.
ICAO/IATA Classification : Not controlled under IATA.

15. Regulatory Information

- HCS Classification** : Irritating material
Sensitizing material

- U.S. Federal Regulations** : All the ingredients are on the TSCA list.
 SARA 302 extremely hazardous substances: No products were found.
 SARA 304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: No products were found.
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

- SARA 313 Reporting Requirements** :
 Chromium compound Trace
 Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: No products were found.
 Clean Air Act (CAA) 112(r) accidental release prevention: No products were found.

International Regulations

- WHMIS (Canada)** : Not available.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

- CEPA DSL/NDSL** : All the ingredients are on the DSL list.
DSCL (EEC) : R43- May cause sensitization by skin contact.

- State Regulations** : Pennsylvania RTK: Glycerol: (not a special hazard)
 Massachusetts RTK: Glycerol
 California Prop. 65: No products were found.

16. Other Information

- Hazardous Material Information System (U.S.A.)** :
- | | |
|---------------------|---|
| Health | 2 |
| Fire Hazard | 0 |
| Reactivity | 0 |
| Personal Protection | C |
- National Fire Protection Association (U.S.A.)**



References : Not available.

Other Special Considerations : Not available.

Validated by Kodak Polychrome Graphics on 2005-11-16.

Verified by Kodak Polychrome Graphics.

Printed 2005-11-16.

In Case of Emergency CALL 1-800-451-8346

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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