

Safety Data Sheet

In accordance with OSHA HCS 1910.1200

1. Identification

Product identifier: Eco Solvent Ultra Black VJ-MSINK3A-Bk220/440/1000
 Recommended use of the chemical and restrictions on use: Inkjet Printing
 Supplier's details
 Name: MUTOH America Inc.
 Address: 2602 South 47th Street, Suite 102, Phoenix, AZ 85034
 Contact section: Customer Care
 Telephone number: 480-968-7772
 Emergency phone number: 480-968-7772 (During normal opening times)

Xerox Part No.: 106R01227, 106R01251
 Xerox Model No.: 8254E/8664E/8265/8290

2. Hazards Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Physical Hazards FLAMMABLE LIQUID Category 4
 Health Hazards SERIOUS EYE DAMAGE /EYE IRRITATION Category 2B
 Environmental Hazards Not classified

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200;

Symbols: None
 Signal word Warning
 Hazard Statements Combustible liquid
 Causes eye irritation

Precautionary Statements

[Prevention] Keep away from flames and hot surfaces. -No smoking.
 Wash hands thoroughly after handling.
 [Response] If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 In case of fire: Use water spray, dry chemical, carbon dioxide or alcohol foam to extinguish.
 [Storage] Store in a well-ventilated place. Keep cool.
 [Disposal] Dispose of contents/ container in accordance with related laws and local/ regional regulations.
 Description of any hazards not otherwise classified;
 Ink contact with skin may cause irritation, swelling or redness.

3. Composition/Information on Ingredients

Information on ingredients:

Chemical name	CAS No.	Concentration (wt %)
Diethylene glycol diethyl ether	112-36-7	55-65
Tetraethylene glycol dimethyl ether	143-24-8	10-20
Gamma-butyrolactone	96-48-0	<20
Proprietary organic materials	Trade secret	1-10
Tetraethylene glycol monobutyl ether	1559-34-8	1-5
Carbon black	1333-86-4	1-5

4. First Aid Measures

Description of first aid measures

Eyes: Immediately flush with room temperature, low pressure and clean water for at least 15 minutes. Seek medical attention if eye irritation continues.
 Skin: Wash surface areas with soap and water. Wash soiled clothing before re-wearing. Consult a physician if irritation continues.
 Inhalation: Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen. Seek immediate medical attention.
 Ingestion: Seek medical advice; and attention if stomach continues to be upset.
 Most important symptoms/effects, acute and delayed:
 Skin: Ink contact with skin may cause irritation, swelling or redness.

Indication of immediate medical attention and special treatment needed, if necessary: Not necessary

5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, dry chemical, carbon dioxide or, alcohol foam
 Unsuitable extinguishing media: None
 Specific hazards arising from the chemical: None
 Special protective equipment and precautions for fire-fighters: Extinguish to use fire fighting media or plentiful fog water. Put protection wear without fail in case of fire fighting work; do not work in the leeward.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Eye or Skin protection required during clean-up. Use proper ventilation.
 For emergency responders: None
 Environmental precautions: Do not release to sewer, surface-or ground-water.

Methods and material for containment and cleaning up

Advice on how to contain a spill: Use sponges to wipe-up ink.
 Advice how to clean-up a spill: Rinse area with damp cloth. Place waste in closed container for disposal.
 Wash hands with soap and water.
 Any other information: Do not dispose of waste to the sewer.
 Reference to other sections: None

7. Handling And Storage

Precautions for safe handling

Recommendations: Use proper ventilation and no fire in work place. Keep out of reach of children and do not drink ink.
 Do not dismantle cartridge.
 Advice on general occupational hygiene: Avoid contact with eyes or clothing.
 In the case of skin contact, wash with soap and water.
 Conditions for safe storage, including any incompatibilities:
 Do not store the cartridge in high or freezing temperatures.
 Keep cartridge out of direct sunlight.
 Do not store the cartridge with oxidizing agents or explosives.
 Make sure cartridge is dry before insertion into printer housing.
 Specific end use(s): Not specified.

8. Exposure controls/personal protection

Control parameters: Diethylen glycol diethyl ether(CAS No.112-36-7)
 California OELs(California Code of Regulations,Title 8,Section5155.Airborne Contaminants)
 The 8-Hour TWA Exposure Value:5 ppm
 The 8-Hour TWA Exposure Value:33mg/m³
 Appropriate engineering controls: Proper ventilation, in prevention
 Individual protection measures, such as personal protective equipment
 Use of personal protective equipment: Not required under suitable use as setting the cartridge on the printer.
 Detailed specification on equipment to provide adequate and suitable protection
 (a) eye/face protection: Not required under suitable use as setting the cartridge on the printer.
 (b) skin protection: hand protection & others:
 Not required under suitable use as setting the cartridge on the printer.
 (c) respiratory protection: Not required under suitable use as setting the cartridge on the printer.
 (d) thermal hazards: Not required under suitable use as setting the cartridge on the printer.
 Environmental exposure controls: Not established

9. Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance: Black liquid
 Odor: Slightly
 Odour threshold: No data available
 pH: No data available
 Melting point/ freezing point: No data available
 Initial boiling point and boiling range: No data available
 Flash point: about 71°C (Closed cup)
 Evaporation rate: No data available
 Flammability(solid, gas): Not applicable (liquid)
 Upper/lower flammability or explosive limits: No data available
 Vapor pressure: No data available
 Vapor density: Greater than 1 (air=1)
 Relative density: No data available
 Solubility(ies): Soluble
 Partition coefficient:n-octanol/water: No data available
 Auto-ignition temperature: No data available
 Decomposition temperature: No data available
 Viscosity: No data available
 Explosive properties: Explosive limits:1.4-6.9v/v% as Gamma-butyrolactone
 Oxidizing properties: None
 Other information: None

10. Stability and Reactivity

Reactivity: Stable under normal temperature
 Chemical stability: Stable under normal temperature
 Possibility of hazardous reactions: None
 Conditions to avoid: High and freezing temperatures
 Incompatible materials: Oxidizers and explosives
 Hazardous decomposition products: No data available

11. Toxicological Information

Information on toxicological effects:

Acute toxicity: Oral LD50: > 2500 mg/kg (Rat)
 Dermal LD50: > 2000 mg/kg (Rat)

Skin corrosion/irritation:	Mild irritant (Rabbit, OECD 404)
Serious eye damage /eye irritation:	Moderate irritant (Rabbit, OECD 405)
Skin sensitization:	Non-sensitizer (LLNA, OECD 429)
Germ cell mutagenicity:	Negative (by Ames Test)
Carcinogenicity:	With excessive exposure, carbon black has been listed as a possible human carcinogen. However, as engineered within this ink cartridge, emissions to air of carbon black during normal printing use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens as group 3.
Reproductive toxicity	No data available
STOT-Single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard	No data available

12. Ecological Information

Toxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

13. Disposal Considerations

Waste treatment methods: Disposal should be in accordance with federal, state, and local requirements.

14. Transport Information

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not applicable

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the product in question:

US Information:

TSCA Section 4(a) Final Test Rules Regulated:	Not regulated
TSCA Section 5 Significant New Use Rule Regulation:	Proposed
Ingredient:	Diethylene glycol diethyl ether CAS Number 112-36-7
Reference:	76FR40850
Ingredient:	Tetraethylene glycol dimethyl ethe CAS Number 143-24-8
Reference:	76ER40850
TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR):	Not regulated
TSCA Section 12(b) One-Time Export Notification Regulated:	
Ingredient:	Diethylene glycol diethyl ether CAS Number 112-36-7
Regulation:	TSCA 5 Proposed SUNR
Ingredient:	Tetraethylene glycol dimethyl ethe CAS Number 143-24-8
Regulation:	TSCA 5 Proposed SUNR
Clean Air Act Section 112, Hazardous Air Pollutants:	Diethylene glycol diethyl ether CAS Number 112-36-7
EPCRA (SARA Title III) Section 313:	Diethylene glycol diethyl ether CAS Number 112-36-7
NFPA/HMIS Hazard Rating :	Health (1), Flammability (2), Instability/Reactivity (0), Other (0)
California Proposition 65:	Not regulated

Canada Information:

WHMIS Controlled Product:	Not applicable(Manufactured article)
Chemical safety assessment:	This ink has not carried out any Chemical Safety Assessment yet.

16. Other Information

Update history:
Date of issue: 13.06.2013

This "Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time. MUTOH does not warrant the completeness or accuracy of the information contained herein.