

## Material Safety Data Sheet

### 1. Article and Corporate Identification

**Product:** Waste Ink from Epson S30670 Printer Operations  
Utilizing Epson SureColor S30670 Printing  
Inks

**Distributor:** Epson America, Inc.  
3840 Kilroy Airport Way  
Long Beach, CA 90806  
United States  
Tel: 562-276-1369  
Fax: 562-997-5799

Sales Picture of Cartridge

*Epson Quick-Dry Ink is engineered to  
provide superior photo quality results.*

### 2. Composition Information

*This is an average solvent based waste ink formulation*

Ink Composition	CAS No.	% By Weight
Carbon black	1333-86-4	<1%
Proprietary dyes and pigments*	-	<3%
Proprietary organic materials	-	<8%
Diethylene glycol diethyl ether	112-36-7	55 – 65%
γ-Butyrolactone	96-48-0	10 - 20%
Diethylene glycol methyl ethyl ether	1002-67-1	10 - 20%
Proprietary organic additives	-	<2%

(\*) Copper content less than 3,400 ppm

### 3. Hazard Identification

- 3.1 **Emergency Overview:** Ink component is a light multi-colored liquid that may cause eye irritation. Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water. Keep out of reach of children.

3.2 Potential Health *Effects*:

*Eyes*: Ink contact with eye may be mildly irritating. See Section 11 for Toxicology.

*Skin*: Ink contact with skin may cause irritation, swelling, or redness. It is not expected to cause an allergic skin reaction. See Section 11 for Toxicology.

*Inhalation*: Intentional exposure to ink vapors may cause respiratory irritation. See Section 11 for Toxicology.

*Ingestion*: May cause upset stomach. See Section 11 for Toxicology.

**4. First Aid Measures**

4.1 *Eyes*: Immediately flush with room temperature, low pressure, clean water for at least 15 minutes. Seek medical attention if eye irritation continues.

4.2 *Skin*: Wash surface areas with soap and water. Wash soiled clothing before re-wearing. Seek medical attention if irritation continues.

4.3 *Inhalation*: Remove subject to ventilated fresh air. Consult physician if necessary

4.4 *Ingestion*: Seek medical attention if stomach continues to be upset.

**5. Fire Fighting Measures**

*Flammability*: Flash point is 79 deg. C (closed cup, ASTM D3278); combustible liquid under Hazardous Communication Standard (HCS, USA)

*Extinguishing Media*: Dry chemical, carbon dioxide, foam, or water

*Fire Fighting Instructions*: No special fire fighting procedures are required other than breathing apparatus and PPE. No special explosion hazards are known.

**6. Accidental Release Measures**

If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Use proper ventilation. Do not dispose of waste to the sewer. Eye or skin protection required during clean-up. Wash hands with soap and water.

**7. Precautions for Safe Handling and Use**

Keep out of reach of children and do not drink waste. Do not store waste in a high or freezing temperatures. Keep waste out of direct sunlight. Do not dismantle waste container. Do not store waste with oxidizing agents or explosives. Store waste in ventilated area without direct/indirect flame.

**8. Exposure Controls and Personal Protection**

*Engineering Controls*: Use in properly ventilated area

*Exposure Controls*: Use in properly ventilated area  
California OEL for Diethylene glycol diethyl ether (CAS No. 112-36-7)  
8-Hour TWA Exposure Value: 5ppm or 33 mg/m<sup>3</sup>

*Personal Protection*: None required when cartridges are used as intended

## 9. Physical and Chemical Properties of Ink Formulation

<i>Appearance:</i>	Multi-colored Liquid
<i>Odor:</i>	Slight
<i>pH:</i>	8.0 – 9.0
<i>Boiling point:</i>	No data available
<i>Freezing point:</i>	Less than 32 deg. F / O deg. C
<i>Melting point:</i>	Less than 32 deg. F / O deg. C
<i>Flash point:</i>	79 deg. C (closed cup, ASTM D3278)
<i>Autoflammability:</i>	None
<i>Explosive properties:</i>	Explosive limit, 1.4 – 6.9v/v% as $\gamma$ -Butyrolactone
<i>Oxidizing properties:</i>	None
<i>Vapor density:</i>	Greater than 1 (air=1)
<i>Relative density:</i>	0.96 at 68 deg. F / 20 deg. C
<i>Solubility in water:</i>	Soluble
<i>Solubility in fat:</i>	No data available
<i>Partition coefficient:</i>	No data available
<i>Viscosity:</i>	No data available

## 10. Stability and Reactivity

<i>Stability:</i>	Stable under normal temperatures
<i>Hazardous polymerization:</i>	Will not occur
<i>Hazard decomposition products:</i>	No data available
<i>Incompatible materials:</i>	Oxidizers and explosives

## 11. Toxicology and Health Hazards

*Routes Of Overexposure:* Eye, skin, inhalation, and oral

### *Acute Health Hazards:*

- Overexposure of eye surface to ink may be mildly irritating
- Overexposure of skin to ink contact may cause irritation and in some people swelling and redness
- Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation and anesthesia
- Intentional or accidental oral ingestion may cause an upset stomach

*Chronic Health Hazards:* None known

*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.

<i>Toxicity Data:</i>	Oral LD50	Dermal LD50	Inhalant LC50	OSHA Regulated?
	>2500mg/kg(Rats)	>2000mg/kg(Rats)	Not Applicable	Not Established

## 12. Ecological Information

No data available on the adverse effects of this material on the environment

## 13. Disposal Considerations

Disposal should be in accordance with federal, state, and local requirements.

**14. Transportation Information** (for commercial purposes)

Regulated as a Class 3 Combustible Liquid by DOT, IMO, or IATA

**15. Regulatory Considerations**

<i>U.S. DOT Hazard Class Regulated?</i>	Yes, Class 3 Combustible Liquid
<i>U.S. OSHA Inhalation Hazard?</i>	No (29 CFR 1910.1000(d)(1)(i))
<i>In U.S., NFPA/HMIS Hazard Rating: SARA 313?</i>	Health (1), Flammability (2), Instability/Reactivity (0), Other (0)
<i>EU RoHS compliant?</i>	Yes, for glycol ether category (CAS# 112-36-7)
<i>California Proposition 65:</i>	Yes
	Yes, toluene (CAS# 108-88-3) as <0.03% by weight of proprietary organic additives
<i>Canada WHMIS Controlled Product:</i>	Not Regulated (manufactured article)

**16. Other Information**

**This MSDS adheres to U.S. regulatory requirements and standards and may not meet the regulatory requirements in other locations.**

This is a revised Material Safety Data Sheet which replaces all prior U.S. MSDS for this product.

This "MSDS" 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. Epson does not warrant the completeness or accuracy of the information contained herein. It is subject to revision from time to time.

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