

## Safety Data Sheet

### Section 1 : Identification of substance and company undertaking

- 1.1 Product identifier: EPSON INK CARTRIDGE T689100
- 1.2 Relevant substance use: Ink for Epson SureColor S30670 and  
S50670 Printers
- 1.3 Supplier details
- Distributor :* Epson America, Inc.
- Address :* 3840 Kilroy Airport Way  
Long Beach, CA 90806  
United States
- Telephone :* 562.276.1369
- FAX :* 562.997.5799
- 1.4 Emergency telephone number : 562.276.1369

### Section 2 : Hazard identification

- 2.1 GHS classification : SKIN CORROSION/IRRITATION; Hazard category 2
- 2.2 Label elements

*Symbols :*



*Signal word :*

Warning

*Hazard*

H315 Causes skin irritation.

*statements:*

H227 Combustible liquid.

*Precautionary*

*statements:*

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P210 Keep away from open flames/hot surfaces. No smoking.

P370+P378 In case of fire: Use alcohol resistant foam for extinction.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Section 3 : Composition/information on ingredients**

*Substance/Mixture : Mixture (ink composition)*

Ink Composition	CAS No.	% By Weight	Remark
Diethylene glycol diethyl ether	112-36-7	50 - 60	none
Diethylene glycol methyl ethyl ether	1002-67-1	15 - 25	none
γ - Butyrolatone	96-48-0	5 - 10	none
Proprietary organic materials	-	1 - 10	none
Carbon black	1333-86-4	1 - 5	none

**Section 4 : First aid measures**

4.1 Description of measures

- Eyes :* Immediately flush with room temperature, low pressure, clean water for at least 15 minutes. Seek medical attention if irritation continues.
- Skin :* IF ON SKIN : Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.
- 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. IF SWALLOWED, do not induce vomiting.

4.2 Most important

symptoms and effects, Ink contact with skin may cause irritation, swelling, or redness. both acute and delayed:

4.3 Indication of any immediate medical attention and special treatment needed : Not necessary

**Section 5 : Fire-fighting measures**

5.1 Extinguishing media

- Suitable media :* Water spray, dry chemical, carbon dioxide, or alcohol resistant foam.
- Unsuitable media :* None

5.2 Special hazards from mixture :

None

5.3 Firefighters :

Use PPE, avoid a leeward position.

**Section 6 : Accidental release measures**

- 6.1 Personal precautions, protective equipment, and emergency procedures  
*Non-emergency personnel :* Eye and skin protection required during clean-up. Use proper ventilation.  
*Emergency responders:* None
- 6.2 Environmental precautions : Do not release to sewer, surface, or ground water.
- 6.3 Methods and material for containment and clean-up  
*Spill containment :* Use sponges to wipe-up ink.  
*Spill clean-up :* Rinse area with damp cloth. Place waste in closed container for disposal.  
Wash hands with soap and water.  
*Other information :* Do not dispose of waste to sewer.
- 6.4 Reference to other sections : Please refer to Section 13 for disposal.

**Section 7 : Handling and storage**

- 7.1 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.  
*Occupation hygiene :* Avoid contact with skin, eyes, and clothing.  
In the case of skin contact, wash with soap and water.
- 7.2 Safe storage : Do not store cartridges in high or freezing temperatures.  
Keep cartridges out of direct sunlight.  
Do not store cartridges with oxidizing agents or explosives.  
Make sure cartridges are dry before insertion into printer housing.
- 7.3 Specific end uses: Not specified

**Section 8 : Exposure controls / personnel protection**

- 8.1 Control parameters : Diethylene glycol diethyl ether (CAS No. 112-36-7)  
California OELs (CCOR, Title 8, Section 5155, Airborne Contaminants)  
The 8-Hour TWA Exposure Value is 5 ppm or 33 mg/m<sup>3</sup>
- 8.2 Exposure controls  
*Engineering controls :* Proper ventilation  
*Personal protection :* Personal protective equipment is not required under suitable use.  
If there is a possibility of ink exposure, wear protective gloves, clothing, eye, and face protection.  
Respiratory protection is not required under suitable use.  
Thermal hazards are not known under suitable use.  
*Environmental exposure controls :* Not established

## Section 9 : Physical and chemical properties

### 9.1 Physical and chemical properties

<i>Appearance :</i>	Black liquid
<i>Odor :</i>	Slight
<i>Odor threshold :</i>	No data available
<i>pH :</i>	8.0 - 9.0
<i>Melting point :</i>	Less than 0°C
<i>Freezing point :</i>	Less than 0°C
<i>Initial boiling point :</i>	No data available
<i>Boiling range :</i>	No data available
<i>Flash point :</i>	74.4°C (closed cup, ASTM D3278)
<i>Evaporation rate :</i>	No data available
<i>Flammability(solid/gas):</i>	Not applicable (liquid)
<i>Upper/lower flammability:</i>	No data available
<i>Upper/lower explosive limits :</i>	1.4 - 6.9v/v% as $\gamma$ -Butyrolactone
<i>Vapor pressure :</i>	No data available
<i>Vapor density :</i>	No data available
<i>Relative density :</i>	0.97 at 20°C
<i>Solubility(ies) :</i>	Soluble in water
<i>Partition coefficient :</i>	N-octanol/water, no data available
<i>Auto ignition temp :</i>	No data available
<i>Decomposition temp :</i>	No data available
<i>Viscosity :</i>	Less than 5 mPa-s at 20°C
<i>Explosive properties :</i>	1.4 - 6.9v/v% as $\gamma$ -Butyrolactone
<i>Oxidizing properties :</i>	None

## Section 10 : Stability and reactivity

10.1 Reactivity :	Stable under normal temperature and pressure
10.2 Chemical stability :	Stable under normal temperature and pressure
10.3 Hazard reactions :	None
10.4 Conditions to avoid :	High and freezing temperatures
10.5 Incompatible materials :	Oxidizers and explosives
10.6 Hazard decomposition :	No data available

## Section 11 : Toxicological information

### 11.1 Toxicological effects

<i>Acute toxicity Oral LD<sub>50</sub> :</i>	>2500 mg/kg (rats)
<i>Acute toxicity Dermal LD<sub>50</sub> :</i>	>2000 mg/kg (rats)

<i>Irritation Eye :</i>	No data available
<i>Irritation Skin :</i>	GHS Hazard category 2
<i>Corrosivity :</i>	No data available
<i>Sensitization :</i>	No data available
<i>Carcinogenicity :</i>	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>Mutagenicity :</i>	No data available
<i>Reproduction toxicity :</i>	No data available

## **Section 12 : Ecological information**

12.1 Toxicity :	No data available
12.2 Persistence and degradability :	No data available
12.3 Bio accumulative potential :	No data available
12.4 Mobility in soil :	No data available
12.5 PBT and vPvB assessment :	No data available
12.6 Other adverse effects :	No data available

## **Section 13 : Disposal considerations**

13.1 Waste treatment methods :	Disposal should be in accordance with federal, state, and local requirements.
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## **Section 14 : Transportation information**

14.1 UN number :	NA 1993
14.2 Proper shipping name :	Combustible liquid, n.o.s.
14.3 Transport hazard class :	Combustible liquid
14.4 Packing group :	III
14.5 Environmental hazards :	Regulated as a Class 3 Combustible Liquid by DOT, IMO, and IATA
14.6 Special precautions :	No label codes
14.7 Bulk transport Annex II of MARPOL 73/78 and IBC Code :	Not applicable

**Section 15 : Regulation information** (safety, health, and environmental)

15.1 U.S. Information

<i>OSHA Inhalation Hazard :</i>	Not Regulated (29 CFR 1910.1000(d)(1)(i))
<i>TSCA Sec. 4(a) Final Test Rules :</i>	Not Regulated
<i>TSCA Sec. 5 SNUR :</i>	Proposed
	<i>Ingredient:</i> DEGDEE (CAS# 112-36-7)
	<i>Reference:</i> 76FR40850
<i>TSCA Sec.8(a) PAIR :</i>	Not Regulated
<i>TSCA Sec. 12(b) 1-time Export :</i>	Regulated
	<i>Ingredient:</i> DEGDEE (CAS# 112-36-7)
	<i>Reference:</i> TSCA 5 Proposed SNUR
<i>Clean Air Act Sec. 112 HAP :</i>	DEGDEE (CAS# 112-36-7) DEGMEE (CAS# 1002-67-1)
<i>EPCRA Sec. 313 (SARA Title III) :</i>	DEGDEE (CAS# 112-36-7) DEGMEE (CAS# 1002-67-1)
<i>NFPA Hazard Rating :</i>	Health(1), Flammability(2), Instability/Reactivity(0), Other(0)
<i>HMIS Hazard Rating :</i>	Health(1), Flammability(2), Instability/Reactivity(0), PPE (D)
<i>California Proposition 65 :</i>	Toluene (CAS# 108-88-3) as <0.03% by weight of proprietary organic materials

15.2 Canada Information :

*WHMIS Controlled Product :* Not applicable (manufactured article)

15.3 Chemical safety

assessment : Chemical safety assessment on ink has not been conducted

**Section 16 : Other information**

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

This is a revised Safety Data Sheet which replaces all prior U.S. SDS for this substance.

This "Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or uses and disposal information which may accompany the substance. 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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