

# MATERIAL SAFETY DATA SHEET

## 1 . Product and Company Identification

Product Name : **Heatless ink for Ink Jet Printer (IQ-648)**

Company Name : GENERAL TECHNOLOGY COMPANY LTD.

18 Satsukigaoka, Minakuchi-cho  
Koka City Shiga, 528-0062 Japan  
Research and Development Department  
Ichiro Sakai

Tel Number : +81-748-65-2260

Emergency Tel Number : +81-748-65-2260(Research and Development Department)

: +81-3-3833-2136(Sales Department)

Fax Number : +81-0748-63-7555

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## 2 . Composition/Information on Ingredients

### Chemical Nature

Ingredients	Contents (wt%)	CAS No.	EU classification
[Ink]			
Dye	5.0-10	Mixture	Not classified
Alcohol	39.0-65.4	Confidential	R11, 41, 67 S7, 16, 24, 26, 39 Xi, F
Glycol Ether	20-50	Confidential	R10 S(2),24
Leveling Additive	0.1-0.5	Confidential	Not classified

The substances that are contained over 0.1% in this ink are not carcinogens.

EU classification of ink as a whole is not classified.

## 3 . Hazards Identification (Most Important Hazard)

### Adverse Human Health Effects

(Ink as a whole)

#### DVERSE HUMAN HEALTH EFFECTS

Contact with eye and skin may result in irritation.

May be harmful if absorbed through the skin.

#### ENVIRONMENTAL EFFECTS

No know applicable information.

#### PHYSICAL AND CHEMICAL HAZARDS

No know applicable information.

## THE CLASSIFICATION OF THE CHEMICAL PRODUCT

### 4 . First-Aid Measures

#### Inhalation

Remove subject to ventilated fresh air. Consult physician if necessary.

#### Skin Contact

Wash thoroughly with soap and water.

#### Eye Contact

Try to remove with eye drops or flush with water. If unsuccessful, get medical attention.

#### Ingestion

Wash mouth with water and get medical advice.

### 5 . Fire-Fighting Measures

Flash point for the ink and method

Method: Cleveland (Open)

Upper and lower flammable (explosive) limits in air

Not yet determined.

Hazardous combustion products

Carbon oxides, nitrogen oxides in fire

Extinguishing Media

Water, CO<sub>2</sub>, Dry Chemical and others

Specific Method

No special fire protecting method is required.

### 6 . Accidental Release Measures

Personal Precautions

Waterless hand cleaners followed by washing with soap and water readily remove product from skin.

Clean-Up Methods

Spills should be cleaned up with absorbent materials.

Large spills: Dike far ahead of liquid spill for later disposal.

Environment Precautions

Especially nothing

### 7 . Handling and Storage

All employees who handle this ink should be trained to handle safely.

Handling (technical measures, precautions, safe handling material)

Prohibition of dropping and throwing

Storage (technical measures storage conditions, packaging material)

Keep out of reach of children and do not drink ink. Do not store ink in high or freezing temperature.

Keep ink out of direct sunlight. Do not store ink with acids, oxidizing agents or explosives.

Store with container tightly closed. Store containers in a cool, dry location, away from direct sunlight or freezing temperature.

## 8 . Exposure Controls / Personal Protection

### Respiratory Protections

None required under normal conditions of use.

### Hand Protection

None required under normal conditions of use.

### Eye Protection

None required under normal conditions of use.

### Skin and Body Protection

None required under normal conditions of use.

## 9 . Physical and Chemical Properties

### Physical State

Form: Solvent type ink

Color: Black

Odor: Alcohol Odor

### Information

pH	: 6.0 – 7.0	Measuring Temperature.( )	: 25
Boiling Point ( )	: Not yet determined		
Flash Point ( )	: 25 degree C(JIS-K2265)	This ink will not burn.	
Melting Point ( )	:		
Auto Ignition Temperature ( )	: Not yet determined		
Vapor Pressure (pa)	: Not yet determined	Measuring Temperature. ( )	: -
Vapor Density (AIR=1)	: Not yet determined		
Density (g / cm 3)	:	Measuring Temperature. 15/4( )	

### Solubility

Water Solubility ( g / L )	:	Insoluble
Water Solubility Measuring Temp ( )	:	-
Other Solvent name	:	-
Other Solvent Solubility (g / L)	:	-
Other Solvent Solubility		Measuring Temperature ( ) : -
Octanol / Water Partition Coefficient	:	Not yet determined

## 10 . Stability and Reactivity

Stability

Stable

Conditions to Avoid

Extreme high or low temperatures

Materials to Avoid

Acid and strong oxidizer can cause a reaction.

Sulfur and sulfur compounds

Hazardous Decomposition Products

Carbon oxides, nitrogen oxides in fire.

Hazardous polymerization conditions and released products

Will not occur

## 11 . Toxicological Information

### Acute Toxicity

#### Acute Oral Toxicity

: Alcohol 1870mg/Kg(rabbit)

:Glycol Ether 7200mg/Kg(rat)

#### Acute Dermal Toxicity

: Alcohol 4000mg/Kg(rabbit)

: Glycol Ether 13000-14000mg/Kg(rabbit)

#### Acute Inhalation Toxicity

: Glycol Ether 7500ppm(rat)

### Sensitization

Acute Skin Irritation : Irritating

Acute Eye Irritation :Irritating

Acute Allergenic Effects : Non-sensitization

### Carcinogenicity

Ames test : Negative

## 12 . Ecological Information

Acute Toxicity for Fish Not yet determined

## 13 . Disposal Consideration

Dispose of waste material in accordance with local, state and federal pollution regulations.

#### 14 . Transport Information

##### INTERNATIONAL REGULATIONS

UN NUMBER : 1274(alcohol), 3092(Glycol Ether)

HAZARD CLASS : Class 3

PACKAGING GROUP :

#### 15 . Regulation Information

EU Notification: All ingredients are listed on EINECS.

EU lassification of ink as a whole is not classified.

The chemicals that are listed in California Proposition 65 are not contained in this ink.

#### 16 . Other Information

None

The information herein given in good faith and to the best knowledge but no warranty, express or implied, is made.