

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Product : Champion CSS Aqueous based Pigmented ink for HP\* wide format printers.

**Packed by:**

Champion Digital Inks Inc.  
88 Davenport Road #2302  
Toronto, Ontario  
M5R 0A5  
Canada  
Tel No. +1-905-783-8969  
[americas@cdi-i.com](mailto:americas@cdi-i.com)

**Distributed by:**

Champion Photochemistry Sdn Bhd  
28-B Jalan 4/32A Mukin Batu  
6 1/2 Miles Jalan Kepong  
Kuala Lumpur 52000  
Malaysia  
Tel No: +603-6257-2600 Ext302  
[asia@cdi-i.com](mailto:asia@cdi-i.com)

### Emergency overview:

An Aqueous based pigmented ink. Contact with skin and eyes may result in irritation. Staining of the skin may occur. Avoid contact with clothing and wash hands as soon as possible.

### 2. Hazards Identification.

Acute health effects: Any potential hazards are presumed to be due to exposure to the components.

- Skin Contact: 2-pyrrolidone - Contact with skin may result in irritation.  
Tetraethylene glycol - Contact with skin may results in irritation and redness.  
See section 11 for Toxicology
- Eye Contact: 2-pyrrolidone - Contact with eyes may result in irritation.  
Tetraethylene glycol - Contact with eyes may result in irritation.  
See section 11 for Toxicology
- Inhalation: Tetraethylene glycol - Unlikely to occur, but could cause respiratory irritation.
- Ingestion: 2-pyrrolidone - unlikely to occur, but could result in nausea, vomiting and diarrhoea

### Potential Health Affects:

Routes of Exposure: Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation.

Chronic health effects: Chronic inhalation studies performed with fine dust particles resulted in lung tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black or similar materials used in CSS inks." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this ink..

Carcinogenicity: None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

### 3. Composition / Information on Ingredients

Chemical Name	CAS No	EINEC No	% w/w	Classification
Water	7732-18-5		>70	No Assigned
2-Pyrrolidone	616-45-5		>10	No Assigned
Tetraethylene glycol	112-67-7		< 7	No Assigned
Red Colorant	Proprietary Dye		10-15	No Assigned
Blue Colorant	Proprietary Dye		10-15	No Assigned
Yellow Colorant	Proprietary Dye		15-20	No Assigned
Magenta Colorant	Proprietary Dye		10-20	No Assigned
Black Colorant	Proprietary Dye		15-20	No Assigned
Black Colorant Mix	Proprietary Dye		13-18	No Assigned
Magenta Colorant Mix	Proprietary Dye		10-20	No Assigned
Blue Colorant Mix	Proprietary Dye		13-20	No Assigned

Composition comments: The ink cartridge contains an aqueous based ink formulation.

### 4. First Aid Measures

First aid procedures

Eye contact: Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

Skin contact: Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

Inhalation: Remove to fresh air. If symptoms persist, get medical attention.

Ingestion: If ingestion of a large amount does occur, seek Immediate medical attention.

### 5. Fire Fighting Measures

Flash point and method: > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Hazardous combustion products: See Section 10.

Flammable properties: None known.

Extinguishing media: Suitable extinguishing media . Dry chemical, CO<sub>2</sub>, water spray or regular foam.



## 9. Physical & Chemical Properties

Odour:	Non under normal conditions of use.
Physical state:	Liquid.
pH:	7.5 - 8
Melting point:	Not available
Freezing point:	Not available
Boiling point:	Not determined
Flash point:	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup
Evaporation rate:	Not determined
Flammability:	Not Flammable
Vapor pressure:	Not determined
Vapor density:	> 1 (air = 1.0)
Specific gravity:	1 - 1.2
Solubility in water:	Soluble in water
Partition coefficient: (n-octanol/water)	Not available
Auto-ignition temperature:	Not available
Decomposition Temperature:	Not available
VOC:	< 3 %
Viscosity:	> 2 cp
Chemical stability:	Stable under recommended storage conditions.

## 10. Chemical Stability & Reactivity Information

Incompatible materials:	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition Products:	Product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous Reactions:	Unlikely to occur.

## 11. Toxicological Information

Eye irritation: Minimal irritant in rabbit (OECD 405)

## 12. Ecological Information

Aquatic toxicity: LC50/96h/Fathead minnows => 750 mg/L  
Persistence and Degradability: Not available

## 13. Disposal Considerations

Disposal instructions: Dispose of in accordance with local and national regulations. Where ever possible  
cartridges should be disposed of using a recognised recycling program.

## 14. Transportation Information

Not regulated as hazardous goods.

IATA:	Not applicable
Proper shipping name:	Not applicable
Hazard class:	Not applicable
UN number:	None
Packing group:	Not applicable
Packaging exceptions:	None

### 15. Regulatory Information

International regulations: All chemical substances in this product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU(EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

### 16: Other Information

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Revision: 1

Replaces sheet dated: April 2011, Rev 0

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