



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

<b>A. Product name</b>	CD406 Series
<b>Synonym(s)</b>	HP DS100 Specialty Textile Light Black Scitex Ink
<b>B. Recommended use and Limitations on use</b>	
<b>Recommended use</b>	Inkjet printing
<b>Company identification</b>	HP Korea House 23-6 Yoido-dong Youngdeungpo-gu Seoul 150-742, Korea Telephone (02) 2199-0114
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<b>Issue date</b>	13-Aug-2016
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## 2. Hazards identification

### A. Hazard category/Classification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.

### B. Warning label items including precautionary statement

- **Pictogram**



- **Signal word** Warning

- **Hazard statement**

H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.

- **Precautionary statement**

- Prevention**

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

- Response**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell.  
P363 - Wash contaminated clothing before reuse.

- Storage**

None

- Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)** Not available.

**Other hazards** Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

### 3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
Ethylene Glycol, Monobutyl Ether Acetate		112-07-2	KE-04135	<90
1,4-diaminoanthraquinone		128-95-0	KE-07559	<2.5
Ethylacetate		141-78-6	KE-00047, 97-1-161	<2.5

### 4. First aid measures

<b>A. In case of eye contact</b>	In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.
<b>B. In case of skin contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists get medical attention. Remove and isolate contaminated clothing and shoes. Thoroughly wash (or discard) clothing and shoes before reuse.
<b>C. In case of inhalation</b>	Move to fresh air. If symptoms persist, get medical attention.
<b>D. In case of swallowing</b>	If swallowed, seek medical advice immediately and show this container or label.
<b>E. Note to physician</b>	Treat symptomatically.

### 5. Fire-fighting measures

<b>A. Suitable (and unsuitable) extinguishing media</b>	
<b>Suitable extinguishing media</b>	CO <sub>2</sub> , water, dry chemical, or foam
<b>Unsuitable extinguishing media</b>	Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.
<b>B. Specific hazards arising from the chemical (example: hazardous combustion products)</b>	Not available.
<b>C. Specific methods of fire-fighting</b>	
<b>Special fire fighting procedures</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>C. Specific methods of fire-fighting</b>	Not available.

### 6. Accidental release measures

<b>A. Personal precautions, protective equipment and emergency measures</b>	Not available.
<b>B. Environmental precautions</b>	Not available.
<b>C. Methods and materials for containment and cleaning up</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

### 7. Handling and storage

<b>A. Precautions for safe handling</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Wear personal protective equipment.
<b>B. Conditions for safe storage (including any incompatibilities)</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

### 8. Exposure controls/personal protection

#### A. Exposure limit values, biological limit values, etc

##### Korea. OELs. Standards for Exposure to Chemical Substances and Physically Hazardous Factors

Components	Type	Value
Ethylacetate (CAS 141-78-6)	TWA	1400 mg/m <sup>3</sup> 400 ppm
Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2)	TWA	131 mg/m <sup>3</sup>

**Korea. OELs. Standards for Exposure to Chemical Substances and Physically Hazardous Factors**

Components	Type	Value
		20 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Ethylacetate (CAS 141-78-6)	TWA	400 ppm
Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2)	TWA	20 ppm

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	None established.
<b>B. Appropriate engineering controls</b>	Use in a well ventilated area. Ensure adequate ventilation, especially in confined areas. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.
<b>C. Personal protective equipment</b>	
• <b>Respiratory protection</b>	Not available.
• <b>Eye protection</b>	Avoid contact with eyes Wear safety glasses; chemical goggles (if splashing is possible).
• <b>Hand protection</b>	Recommended gloves: Nitrile 6 mil minimum thickness.
• <b>Body protection</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>Recommended monitoring procedures</b>	
<b>Additional exposure data</b>	None established.

**9. Physical and chemical properties**

<b>A. Appearance</b>	
<b>Physical state</b>	Not available.
<b>Color</b>	Black.
<b>B. Odor</b>	Not available.
<b>C. Odor threshold</b>	Not available.
<b>D. pH</b>	Not applicable.
<b>E. Melting point/freezing point</b>	
<b>Freezing point</b>	Not determined.
<b>F. Boiling point, initial boiling point, and boiling range</b>	Not determined.
<b>G. Flash point</b>	> 145.0 °F (> 62.8 °C) (Closed Cup)
<b>H. Evaporation rate</b>	Not determined.
<b>I. Flammability (solid, gas)</b>	Not available.
<b>J. Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>K. Vapor pressure</b>	Not determined.
<b>L. Solubility</b>	
<b>Solubility (water)</b>	Not available.
<b>M. Vapor density</b>	Not available.
<b>N. Specific gravity</b>	0.94 @ 20 Degrees C
<b>O. n-octanol/water partition coefficient</b>	Not available.
<b>P. Auto-ignition temperature</b>	Not available.

<b>Q. Decomposition temperature</b>	Not available.
<b>R. Viscosity</b>	Not available.
<b>S. Molecular weight</b>	Not available.
<b>Other data</b>	
VOC (Weight %)	< 850 g/L

## 10. Stability and reactivity

### A. Stability and hazardous reaction potential

<b>Stability</b>	Stable at normal conditions
<b>Hazardous reaction potential</b>	Will not occur.

**B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)** Not available.

**C. Incompatible materials** strong oxidizing agents Strong acids and strong alkalis. oxidizing agents

**D. Hazardous decomposition products** None known.

## 11. Toxicological information

### A. Information on likely routes of exposure

- **Respiratory organs** Not available.
- **Mouth** Not available.
- **Eyes** Not available.
- **Skin** Not available.

### B. Information on health hazards

- **Acute toxicity (list all possible routes of exposure)** Harmful in contact with skin.
- **Corrosivity or irritation to the skin** Based on available data, the classification criteria are not met.
- **Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.
- **Respiratory sensitization** Based on available data, the classification criteria are not met.
- **Skin sensitization** May cause sensitization by skin contact.
- **Carcinogenic properties /Carcinogenicity** Based on available data, the classification criteria are not met.
- **Mutagenic properties /Mutagenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

Product	Species	Test Results
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CD406 Series

**Acute**

*Oral*

LD50	Rat	2400 mg/kg
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Components	Species	Test Results
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Ethylacetate (CAS 141-78-6)

**Acute**

*Inhalation*

LC50	Rat	16000 ppm, 6 Hours
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LD50	Mouse	1500 ppm, 4 Hours
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Components	Species	Test Results
	Rabbit	2500 ppm, 4 Hours
	Rat	4000 ppm, 4 Hours
<i>Oral</i>		
LD50	Mouse	0.44 g/kg
	Rabbit	4.9 g/kg
	Rat	11.3 ml/kg
		5.6 g/kg
<i>Other</i>		
LD50	Cat	3 g/kg
	Guinea pig	3 g/kg
Ethylene Glycol, Monobutyl Ether Acetate (CAS 112-07-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	1500 mg/kg
<i>Oral</i>		
LD50	Rat	2400 mg/kg
<i>Other</i>		
LD50	Mouse	754 mg/kg
<b>Further information</b>	Complete toxicity data are not available for this specific formulation	

## 12. Ecological information

### A. Ecotoxicity

Components	Species	Test Results
Ethylacetate (CAS 141-78-6)		
<b>Aquatic</b>		
Fish	LC50	Indian catfish ( <i>Heteropneustes fossilis</i> ) 200.32 - 225.42 mg/l, 96 hours
<b>Hazardous to the aquatic environment, acute hazard</b>	Not available.	
<b>Hazardous to the aquatic environment, long-term hazard</b>	Not available.	
<b>B. Persistence/degradability</b>	Not available.	
<b>C. Bioaccumulative potential</b>		
<b>Bioaccumulative potential</b>		
<b>Octanol/water partition coefficient log Kow</b>		
Ethylacetate		0.73
<b>D. Mobility in soil</b>	Not available.	
<b>E. Other adverse effects</b>	Not available.	

## 13. Disposal considerations

<b>A. Method of disposal</b>	Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.
<b>B. Disposal considerations (including disposal of contaminated containers or packaging)</b>	Not available.

## 14. Transport information

<b>DOT</b>	
<b>UN number</b>	NA1993
<b>UN proper shipping name</b>	Combustible liquid n.o.s. (butyl cellosolve acetate) -Not regulated in quantities less than 119 gallons

**Transport hazard class(es)**

<b>Class</b>	Combustible
<b>Subsidiary risk</b>	-
<b>Packaging group</b>	III
<b>Special precautions for user</b>	Not available.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**ADR**

Not regulated as dangerous goods.

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**15. Regulatory information****A. Restrictions under the Industrial Safety and Health Law****Harmful Substances Prohibited from Manufacturing**

Not regulated.

**Harmful Substances Requiring Permission for Manufacture or Use**

Not regulated.

**Controlled Hazardous Substances**

ETHYL ACETATE (CAS 141-78-6)

ETHYLENE GLYCOL MONOBUTYL ACETATE (CAS 112-07-2)

**Harmful Substances Requiring Special Medical Examination**

2-BUTOXYETHANOLACETATE (CAS 112-07-2)

**Workplace Environmental Monitoring Harmful Materials**

ETHYL ACETATE (CAS 141-78-6)

ETHYLENE GLYCOL MONO BUTYL ACETATE (CAS 112-07-2)

**Occupational Exposure Limit**

ETHYL ACETATE (CAS 141-78-6)

ETHYLENEGLYCOL MONOBUTYL ETHERACETATE (CAS 112-07-2)

**B. Restrictions under the Toxic Chemicals Control Law****Accidental Release Prevention Substances**

Not regulated.

**Banned Toxic Chemicals**

Not regulated.

**Observational Chemicals**

Not regulated.

**Restricted Chemical Substances**

Not regulated.

**Toxic Chemicals**

ETHYL ACETATE (CAS 141-78-6)

97-1-161 > 0

**C. Restrictions under the Dangerous Substance Safety Management Act****D. Restrictions under the Wastes Control Act****Halogenated Materials in Waste Organic Solvents**

Not regulated.

**Hazardous Substances**

Not regulated.

**E. Restrictions under other foreign or domestic laws****Clean Air Conservation Act****Air Pollutants**

Not regulated.

**Specific Air Pollutants**

Not regulated.

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**16. Other information**

**A. Source of information** Not available.

**B. Issue date** 13-Aug-2016

**C. Number of revisions and date of most recent revision**

Not applicable.

**D. Other**

Not available.

**Disclaimer**

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**This data sheet contains changes from the previous version in section(s):**

1. Product and Company Identification: Synonyms  
Composition/Information on Ingredients  
8. Exposure Controls / Personal Protection: OELs  
9. Physical & Chemical Properties: Multiple Properties  
14. Transport Information: Material Transportation Information  
15. Regulatory Information: United States  
HazReg Data: Pacific Rim

**Manufacturer information**

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**Explanation of abbreviations**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds