

# SAFETY DATA SHEET



A CANON COMPANY

Océ ColorWave 300 Black Ink

## Section 1. Identification

**GHS product identifier** : Océ ColorWave 300 Black Ink  
**Article number (Océ)** : 1060091360 / 1060089323 / 1060091356 / 29953904 / 29953908 (Ink tank 400 ml / Ink tank 200 ml / Combipack / combipack(XL))  
**Product code (Canon)** : 5834B005AA / 5834B001AA / 5835B001AA / 5836B004AA / 5836B008AA  
**Product type** : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Inkjet printing ink. Other uses are not recommended.

**Supplier's details** : Canon USA Inc.  
One Canon Park, Melville, NY, 11747, USA  
1-800-OK-CANON

**e-mail address of person responsible for this SDS** : sds-hq@oce.com

**Emergency telephone number (with hours of operation)** : CHEMTREC# 1-800-424-9300 (24-hour safety information)  
**or**

001866 928 0789 24h

For chemical emergencies only.

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

### GHS label elements

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### CAS number/other identifiers

**CAS number** : Not applicable.

## Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
2-pyrrolidone	5 - 10	616-45-5
carbon black, respirable powder	5 - 10	1333-86-4
DL-hexane-1,2-diol	1 - 5	6920-22-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
- Inhalation** : Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.
- Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides

## Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8).
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Wipe up small spills with disposable towels and transfer to a sealable, appropriate container for disposal. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Keep from freezing.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
carbon black, respirable powder	<b>NIOSH REL (United States, 10/2013).</b> TWA: 3,5 mg/m <sup>3</sup> 10 hours. TWA: 0,1 mg of PAHs/cm <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 2/2013).</b> TWA: 3,5 mg/m <sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 4/2014).</b> TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction

## Section 8. Exposure controls/personal protection

Polyethylene glycol

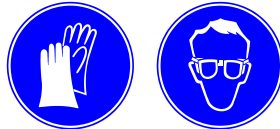
**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 3,5 mg/m<sup>3</sup> 8 hours.  
**AIHA WEEL (United States, 10/2011).**  
TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Aerosol

- Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

- Hygiene measures** : Wash hands after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
- Eye/face protection** : Recommended: safety glasses with side-shields.
- Skin protection**
- Hand protection** : For prolonged or repeated handling, use the following type of gloves: neoprene or nitrile rubber. Contaminated gloves should be replaced.
- Body protection** : Not required during normal intended use of this product.
- Other skin protection** : Not required during normal intended use of this product.
- Respiratory protection** : Not required during normal intended use of this product.

**Personal protective equipment (Pictograms)** :



## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : Black.
- Odor** : Faint odor.
- Odor threshold** : Not available.
- pH** : 7 to 8,5
- Melting point** : 0 °C
- Boiling point** : not available
- Flash point** : [Product does not sustain combustion.]
- Evaporation rate** : Not determined.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : Not available.
- Solubility** : Easily soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-pyrrolidone	LD50 Oral	Rat	8000 mg/kg	-
DL-hexane-1,2-diol	LC50 Inhalation Dusts and mists	Rat	>7000 mg/m <sup>3</sup>	4 hours
-	LD50 Oral	Rat	6166 mg/kg	-
Océ ColorWave 300 Black Ink	LD50 Oral	Rat	>2000 mg/kg	-

**Conclusion/Summary** : No adverse effects are expected under intended use.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-pyrrolidone	Skin - Erythema/Eschar	Rabbit	0	4 hours	72 hours
-	Skin - Edema	Rabbit	0	4 hours	72 hours

#### Conclusion/Summary

- Skin** : Non irritating on rabbit (OECD 404, method B4). Not classified as a skin irritant.
- Eyes** : Non irritating on rabbit (OECD 405, Method B5). Not classified as an eye irritant.
- Respiratory** : If ink mist is inhaled, respiratory tract irritation may occur. No adverse chronic effects known.

#### Sensitization

Not available.

#### Conclusion/Summary

- Skin** : Non-sensitizer. (OECD 406 Skin Sensitization). Not classified as a dermal sensitiser.

#### Mutagenicity

Not available.

**Conclusion/Summary** : Not mutagenic in Ames test.

#### Carcinogenicity

##### Classification

Product/ingredient name	OSHA	IARC	NTP
carbon black, respirable powder	-	2B	-

## Section 11. Toxicological information

**Conclusion/Summary** : The IARC evaluated carbon black, as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black at levels that induce particle overload of the lung. However, the amount of inhalation exposure to powdered carbon black is negligible under intended use of this product.

### Reproductive toxicity

Not available.

**Conclusion/Summary** : No known significant effects or critical hazards.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
DL-hexane-1,2-diol	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
2-pyrrolidone	Acute EC50 13210 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
carbon black, respirable powder	Acute EC50 37.563 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Océ ColorWave 300 Black Ink	EC50 >1000 mg/l	Daphnia	48 hours

**Conclusion/Summary** : Not determined.

### Persistence and degradability

Not available.

## Section 12. Ecological information

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2-pyrrolidone	-0,71	3,16	low

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**RCRA classification** : Not applicable. This product is not listed hazardous waste in accordance with Federal Regulation 40 CFR Part 261.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Transport hazard class(es)	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
Not determined.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2-pyrrolidone	5 - 10	No.	No.	No.	Yes.	No.
carbon black, respirable powder	5 - 10	No.	No.	No.	No.	Yes.
DL-hexane-1,2-diol	1 - 5	No.	No.	No.	Yes.	No.

### State regulations

**Massachusetts** : The following components are listed: 2-PYRROLIDONE; CARBON BLACK

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: CARBON BLACK

**Pennsylvania** : The following components are listed: 2-PYRROLIDINONE; CARBON BLACK

### California Prop. 65

California Proposition 65 list contains airborne, unbound Carbon Black of respirable size. Under intended use of this product the degree of inhalation exposure to powdered Carbon Black is negligible. Therefore warnings under Proposition 65 are not required.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
carbon black, respirable powder	Yes.	No.	No.	No.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.



## Section 15. Regulatory information

### [Rotterdam Convention on Prior Inform Consent \(PIC\)](#)

Not listed.

### [UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

## Section 16. Other information

### [Hazardous Material Information System \(U.S.A.\)](#)

Health	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### [National Fire Protection Association \(U.S.A.\)](#)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### [History](#)

<b>Date of printing</b>	: 20-05-2015
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<b>Date of previous issue</b>	: No previous validation
<b>Version</b>	: 1

### [Key to abbreviations](#)

: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: UN = United Nations

### [References](#)

: Not available.

☑ Indicates information that has changed from previously issued version.

### [Notice to reader](#)

## Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.