

Material Safety Data Sheet

Number EN-403-a-US
Date 19 June 2009
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Océ PlotWave 300 Developer

1. Identification of the substance/preparation and company/undertaking

Identification of the substance or preparation

Product name : Océ PlotWave 300 Developer
Article no. : 1060077716
Packaging : Polyethylene bottle, contents 1,75 kg/3.86 lb
Specific uses : Ink powder for copiers and printers.
Supplier : Océ North America, Inc.
Address : 100 Oakview Drive * Trumbull * CT06611
Telephone : 773-714-3622
e-mail address : sds-hq@oce.com
Emergency telephone number : Emergency telephone number: 1-800-424-9300 (24 Hour Safety Data Information)

2. Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments. To the best of our knowledge, with due observance of the recommended exposure limits and of normal hygiene this product presents no health hazard in normal use. This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Additional hazards : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Fine toner dust clouds may form explosive mixtures with air.

3. Composition/information on ingredients

Substance/preparation : Preparation

<u>Ingredient name</u>	<u>CAS number</u>	<u>EC number</u>	<u>% by weight</u>	<u>EU Classification</u>
Iron oxide	1317-61-9	215-277-5	50 - 100	Not classified.
Phenoxy resin	PMN P-95-461		1 - 5	Not classified.
Polyester resin	170831-75-1		1 - 5	Not classified.
Carbon black	1333-86-4	215-609-9	0 - 1	Not classified. [2]

United States: Hazardous ingredients

<u>Ingredient name</u>	<u>CAS number</u>
Carbon black	1333-86-4

[2] Substance with a workplace exposure limit

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

4. First-aid measures

Inhalation : Remove to fresh air. Clean nose, mouth and throat. Cough up.
Ingestion : Rinse mouth with water. If swallowed, seek medical advice immediately and show the container or label.
Skin contact : Wash skin with soap and cold water.
Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water, keeping eyelids open.
Specific treatments : In all cases of doubt, or when symptoms persist, seek medical attention and take along this safety data sheet.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
Not suitable : Do not use water jet.
Special exposure hazards : Not applicable.
Hazardous thermal decomposition products : carbon monoxide, carbon dioxide, smoke.
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.

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6. Accidental release measures

- Personal precautions** : Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Spill** : Avoid formation of dust. Vacuum or sweep up spilt material with a damp rag. Contain and collect spillage only with an electrically protected vacuum cleaner.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Handle and open container with care. Avoid formation of dust. See information supplied on the label of the tonerbottle and in the operator manual of the copier/printer.
Use with adequate ventilation. See operator manual or safety data sheet of the copier/printer.
- Storage** : Keep container tightly closed and sealed until ready for use. Store in accordance with local regulations.
- Specific uses** : Keep container tightly closed to prevent dust formation. Handle with care. Avoid breathing dust.

8. Exposure controls/personal protection

Occupational exposure limits

United States

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Carbon black	NIOSH REL (United States, 6/2008). TWA: 3,5 mg/m ³ 10 hour(s). TWA: 0,1 mg of PAHs/cm ³ 10 hour(s). ACGIH TLV (United States, 1/2008). TWA: 3,5 mg/m ³ 8 hour(s). OSHA PEL (United States, 11/2006). TWA: 3,5 mg/m ³ 8 hour(s).
Respirable particulate	ACGIH TLV (United States). TWA: 3 mg/m ³
Inhalable particulate	ACGIH TLV (United States). TWA: 10 mg/m ³

- Recommended monitoring procedures** : Not required.

Exposure controls

- Occupational exposure controls** : Use only with adequate ventilation. See operator manual or safety data sheet of the copier/printer.
- Respiratory protection** : Not required in normal use.
- Hand protection** : Not required.
- Eye protection** : Not required.
- Skin protection** : Not required. Wash skin with soap and cold water.
- Environmental exposure controls** : Not required in normal use.

9. Physical and chemical properties

- Physical state** : Solid. [Powder.]
- Odour** : Faint odour.
- Colour** : Black.
- pH** : Not applicable.
- Boiling point** : Not applicable.
- Melting point** : approx. 50°C (softening point)
- Flash point** : Not applicable.
- Explosion limits** : Not available.
- Vapour pressure** : Not applicable.
- Vapour density** : Not applicable.
- Evaporation rate** : Not applicable.
- Oxidising properties** : Not available.
- Density** : approx. 2500 kg/m³ (bulk density).
- Viscosity** : Not available.
- Solubility** : Insoluble in water.
- Octanol/water partition coefficient** : Not available.



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10. Stability and reactivity

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : None known.
- Materials to avoid** : None known.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Potential acute health effects

- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. (*)
- Ingestion** : No known significant effects or critical hazards. (*)
- Skin contact** : No known significant effects or critical hazards. (*)
- Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. (*)

(*) These statements are based on toxicological literature on the ingredients of this product and test results of similar products.

Potential chronic health effects

- Chronic effects** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : Not mutagenic in Ames test. (Based on test result of similar product.)
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Eyes** : Adverse symptoms may include the following:
irritation
redness

12. Ecological information

- General** : The product has not been tested. Based on the properties of the ingredients can be stated that this product is not hazardous to the environment.
- Ecotoxicity** : Not readily biodegradable.
- Aquatic ecotoxicity** : Not available.

Biodegradability

<u>Product/ingredient name</u>	<u>Biodegradability</u>
Océ PlotWave 300 Developer	Not readily

- Bioaccumulative potential** : Not available.

- AOX** : The product does not contain organically bound halogens which could lead to an AOX value in waste water.

13. Disposal considerations

- Disposal** : Material is not classified as hazardous waste under the present EPA regulations. Pack waste dustproof. Dispose of according to all federal, state and local applicable regulations. Do not throw in open fire, in order to prevent the risk of a dust explosion.

European waste catalogue (EWC) according to Directive 2001/118/EC

- Substance/preparation** : 08 03 18 waste printing toner other than those mentioned in 08 03 17 (08 03 18 = waste printing toner not classified as hazardous waste).
- Packaging** : 15 01 02 plastic packaging (with remaining developer contaminated polyethylene toner bottle).

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14. Transport information

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

15. Regulatory information

EU regulations

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments. To the best of our knowledge, with due observance of the recommended exposure limits and of normal hygiene this product presents no health hazard in normal use.

Risk phrases : This product is not classified according to EU legislation.

Product use : Professional applications.

United States

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard and safety information on the label : Contains Carbon black.
Handle carefully; avoid breathing dust.

California Prop. 65 : Ingredient carbon black subject to California Proposition 65 is bound in polymer-matrices so that warnings are not required.

16. Other information

Statement

Carbon Black: in 1996 the International Agency for Research on Cancer (IARC) re-evaluated carbon black as a Group 2B carcinogen (possible human carcinogen), based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black. The effects were observed only in animals exposed to high concentrations of carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats. Epidemiology studies of workers in the carbon black producing industries of North America and Western Europe do not demonstrate an association between carbon black and cancer, even in high exposure occupational settings. In addition, in its re-evaluation of carbon black, IARC concluded that "there is inadequate evidence in humans for the carcinogenicity of carbon black". Chronic overexposure to many dusts, including carbon black dust, may result in respiratory tract irritation and slight changes in lung function.

Date of printing : 19-06-2009.

Revision comments : No previous validation

Version : 1

This safety data sheet has been compiled to the best of our knowledge as a compact guide to safe handling of this product. We reserve the right to revise safety data sheets as new information becomes available. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary and to contact the company to make sure that this sheet is the latest one issued. If and insofar as limitation of liability is permitted under the applicable laws, we do not accept liability for any inaccuracy that may occur in this information.