

# SAFETY DATA SHEET



PlotWave 450/550 Toner

A CANON COMPANY

This Safety Data Sheet is prepared voluntarily: it is not required according to Article 31 of Regulation (EC) No 1907/2006. This Safety Data Sheet is therefore not required to comply with this regulation.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : PlotWave 450/550 Toner  
**Article number** : 1070063710; 1070063522; 1070066530; 1070066534  
**Product code (Canon)** : 1284C002AA; 1284C002BA

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

**Identified uses** : Ink powder for Océ PlotWave 450/550. Other uses are not recommended.

### 1.3 Details of the supplier of the safety data sheet

**Supplier** : Océ-Technologies B.V.  
**Address** : St. Urbanusweg 43, 5914 CA Venlo, the Netherlands  
**Telephone number** : +31 77 359 2222  
**e-mail address** : sds-hq@oce.com

### 1.4 Emergency telephone number

#### Emergency telephone number

**Telephone number** : + 44 (0) 1235 239 670  
**Hours of operation** : 24h  
**Information limitations** : For chemical emergencies only.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture  
**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**  
Not classified.

See Section 16 for the full text of the H statements declared above.

### 2.2 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.  
**Supplemental label elements** : Not applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Carbon Black	CAS: 1333-86-4	3 - 5	-	-	-

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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

## SECTION 4: First aid measures

### 4.1 Description of 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. Get medical attention if irritation occurs.
- Inhalation** : If inhaled, remove to fresh air.
- Skin contact** : Wash with plenty of soap and water.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

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

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Fine dust clouds may form explosive mixtures with air.

## SECTION 5: Firefighting measures

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

### 5.3 Advice for firefighters

**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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**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

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust.

**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".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### 6.3 Methods and material for containment and cleaning up

**Small spill** : Avoid formation of dust. Slowly sweep spilled toner and carefully transfer into waste bag or container. Remove residue with wet paper or water and soap. Do not vacuum up large quantities unless using an explosion proof vacuum cleaner.

**Large spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Do not vacuum up large quantities unless using an explosion proof vacuum cleaner. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Do not store above the following temperature: 35°C (95°F). Store in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use.

### 7.3 Specific end use(s)

For professional users only.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

##### Europe: EU limit values:

No exposure limit value known.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. See operator manual or safety data sheet of the copier/printer.

#### 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.

**Eye/face protection** : Not required during normal intended use of this product.

#### Skin protection

**Hand protection** : Not required.

**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.

**Environmental exposure controls** : Not required during normal intended use of this product.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Solid. [Powder.]
<b>Colour</b>	: Black.
<b>Odour</b>	: Faint odour.
<b>Odour threshold</b>	: Not available.
<b>pH</b>	: Not applicable.
<b>Melting point/freezing point</b>	: Not available.
<b>Initial boiling point and boiling range</b>	: Not applicable.
<b>Flash point</b>	: Not applicable.
<b>Evaporation rate</b>	: Not applicable.
<b>Flammability (solid, gas)</b>	: Toner is combustible. Fine toner dust clouds may form explosive mixtures with air.
<b>Upper/lower flammability or explosive limits</b>	: Lower: 30 to 60 g/m <sup>3</sup> Upper: 2000 to 6000 g/m <sup>3</sup>
<b>Vapour pressure</b>	: Not available.
<b>Vapour density</b>	: Not applicable.
<b>Relative density</b>	: Not available.
<b>Solubility(ies)</b>	: Insoluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/ water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.

## SECTION 9: Physical and chemical properties

<b>Viscosity</b>	: Not available.
<b>Explosive properties</b>	: Not available.
<b>Oxidising properties</b>	: Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Dust explosion, like most finely divided organic powders.
<b>10.4 Conditions to avoid</b>	: Avoid formation of dust. Take precautionary measures against electrostatic discharges. Avoid all possible sources of ignition (spark or flame).
<b>10.5 Incompatible materials</b>	: None known.
<b>10.6 Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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

#### Irritation/Corrosion

##### **Conclusion/Summary**

**Skin** : Non-irritating to the skin. Based on toxicological literature on the ingredients of this product and test results of similar products.

**Eyes** : Mildly irritating to the eyes. Based on toxicological literature on the ingredients of this product and test results of similar products.

**Respiratory** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Based on toxicological literature on the ingredients of this product and test results of similar products.

#### Sensitisation

##### **Conclusion/Summary**

**Skin** : No known significant effects or critical hazards.

**Respiratory** : No known significant effects or critical hazards.

#### Mutagenicity

**Conclusion/Summary** : Not mutagenic in Ames test. (Based on test result of similar product.)

#### Carcinogenicity

**Conclusion/Summary** : 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.

#### Reproductive toxicity

## SECTION 11: Toxicological information

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

**Information on the likely routes of exposure** : Not available.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

### 12.2 Persistence and degradability

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

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

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

#### European waste catalogue (EWC)

Waste code	Waste designation
08 03 18 -	waste printing toner other than those mentioned in 08 03 17 Waste printing toner not classified as hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
(Polyethylene bottle with residual toner).	15 01 02 plastic packaging.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

	<b>ADR/RID</b>	<b>ADN</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN number</b>	Not available.	Not available.	Not available.	Not available.
<b>14.2 UN proper shipping name</b>	Not available.	Not available.	Not available.	Not available.
<b>14.3 Transport hazard class(es)</b>	Not available.	Not available.	Not available.	Not available.
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.
<b>Additional information</b>	-	-	-	-

**14.6 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.

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

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Other EU regulations**

**Europe inventory** : All components are listed or exempted.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**National regulations****Austria**

**Limitation of the use of organic solvents** : Permitted.

**Belgium**

<b>Product/ingredient name</b>	<b>List name</b>	<b>Name on list</b>	<b>Classification</b>	<b>Notes</b>
Carbon black	Belgium Carcinogen chemicals	Kohlenstoffschwarz Extrakte	Carc.	-

**SECTION 15: Regulatory information****Denmark**

Product/ingredient name	List name	Name on list	Classification	Notes
Carbon black	Denmark Carcinogenic Chemicals	carbon black	Listed	-

**Finland**

**NACE** : Not available.

**UC62** : Not available.

**France**

**Reinforced medical surveillance** : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

**Germany**

**Storage class (TRGS 510)** : not available

**Hazard class for water** : not available

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

**Italy**

**D.Lgs. 152/06** : Not classified.

**Netherlands**

**Water Discharge Policy (ABM)** : not available

**Portugal**

Product/ingredient name	List name	Name on list	Classification	Notes
Carbon black	Portugal Occupational Exposure Limits	carbono (preto); negro de fumo	Carc. A3	-

**Switzerland**

**VOC content** : Exempt.

**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.

**Rotterdam Convention on Prior Inform Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information**

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## SECTION 16: Other information

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

### Europe

**Full text of abbreviated H statements** : Not applicable.

**Full text of classifications [CLP/GHS]** : Not applicable.

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### Notice to reader

**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.**