



# Safety Data Sheet 58394701

Date SDS Issued: May 21, 2015

Date SDS Revised: May 21, 2015

SDS Revision Number 1

## 1. Identification of Substance and Company

### Product Identification

**Product Name:** Black Developer for CX1145

**Recommended Use:** Carrier medium for toner

### Details of Company

**Name:** Oki Data Americas, Inc.  
**Address:** 2000 Bishops Gate Blvd  
Mount Laurel, NJ 08054  
US  
**Phone Number:** 1-800-654-3282  
**Fax Number:** 1-856-222-5247  
**Email Address:** support@okidata.com  
**Emergency Phone Number:** 1-800-654-3282

## 2. Hazard(s) Identification

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### GHS Label elements

#### Emergency Overview

**Signal Word** None

**Hazard Statement** None

**Color:** Black

**Physical State:** Granular Powder

**Odor:** None

#### **Precautionary Prevention Statement:**

Obtain instructions before use.

#### **Precautionary Response Statement**

None

#### **Precautionary Storage Statement**

Keep away from children.

#### **Precautionary Disposal Statement**

None

**Other Information**

Carbon Black in a free state is classified by the IARC as a Group 2B Carcinogen (possibly carcinogenic to humans). The formulation of the toner has Carbon Black only present in a bounded state and not in a free state so it does not present a carcinogenic risk.

**Interactions with Other Chemicals**

None known

### 3. Composition Information

Chemical Name	CAS Number	Weight	Trade Secret
Ceramic materials and wares, chemicals	66402-68-4	> 90%	
Polyester Resin	Trade Secret	< 10%	*
Carbon Black	1333-86-4	< 1%	
Amorphous Silica	7631-86-9	< 1%	

\* The exact percentage or CAS Number has been withheld as a trade secret

### 4. First Aid Measures

<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists or concerned see a physician.
<b>Skin Contact</b>	Wash with soap and water. If irritation occurs or is persistent, seek medical attention.
<b>Inhalation</b>	Remove from exposure area to fresh air immediately. Seek medical attention if there is any difficulty in breathing or other signs of respiratory distress.
<b>Ingestion</b>	Drink several glass of water to dilute stomach contents.
<b>Most Important Symptoms and Effects</b>	No information is available.

**Notes to Physician:**

Treat systematically.

### 5. Fire Fighting Measures

**Suitable Extinguishing Media**

Foam, carbon dioxide, dry chemical, and water fog

**Unsuitable Extinguishing Media**

None known

**Specific Hazards Arising from Chemicals**

Can form explosive dust-air mixtures when finely dispersed in air.

**Hazardous Combustion Products**

None known

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:**

Wear proper protective equipment. Avoid breathing dust.

**Methods for Containment:**

Prevent further leakage or spillage if situation is safe to do so.

**Methods for Cleanup:**

Use spark free vacuum to clean spilled toner/developer and carefully transfer into sealable waste container. If no spark free vacuum cleaner is available, sweep slowly to minimize generation of dust during clean up. Residue can be removed with soap and cold water.

## 7. Handling and Storage

**Precautions for Safe Handling:**

Do not breath dust

**Conditions for Safe Storage:**

Keep Cool

Store in a dry place

Keep out of reach of children

**Incompatible Products:**

None known

## 8. Exposure Controls/Personal Protection

**Exposure Limits:**

Chemical Name	CAS Number	OSHA PEL	NIOSH IDLH
Black Developer for CX3535, CX4545	-	15 mg/m <sup>3</sup>	
Carbon Black	1333-86-4	3.5 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>

*OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health*

**Engineering Measures:**

None if used as intended.

**Individual Protection**

**Eye/Face Protection** Not required when use as intended.

**Skin/Body Protection** Not required when use as intended.

**Respiratory Protection** Not required when use as intended.

**Hygiene Measures** Wash hands after installation

## 9. Physical and Chemical Properties

<u>Property</u>	<u>Value</u>	<u>Remarks/Methods</u>
<b>Appearance</b>	Fine Solid Powder	
<b>Color</b>	Black	
<b>Odor</b>	Odorless	
<b>Odor Threshold</b>	No data available	
<b>pH</b>	No data available	
<b>Melting/Freezing point</b>	No data available	
<b>Initial Boiling point</b>	No data available	
<b>Boiling Range</b>	No data available	
<b>Flash point</b>	No data available	

<b>Evaporation Rate</b>	No data available	
<b>Flammability</b>	No data available	
<b><u>Flammability or Explosive</u></b>		
<b>Upper Limit</b>	No data available	
<b>Lower Limit</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>Vapor Density</b>	No data available	
<b>Relative Density</b>	4.5 – 5.5 g/cm <sup>3</sup>	
<b>Solubility(ies)</b>	Negligible	Water Solubility is the only know Solubility.
<b><u>Partition Coefficient</u></b>		
<b>n-octanol</b>	No data available	
<b>water</b>	No data available	
<b>Auto-ignition Temperature</b>	No data available	
<b>Decomposition Temperature</b>	No data available	
<b>Viscosity</b>		

## 10. Stability and Reactivity

### **Reactivity:**

No data available

### **Chemical Stability:**

Stable

### **Possibility of Hazardous Reactions:**

None under intended use

### **Conditions to Avoid:**

No data available

### **Incompatible Materials:**

None under intended use

### **Hazardous Decomposition Products:**

Carbon monoxide and carbon dioxide

## 11. Toxicology Information

### **Product Information**

<b>Inhalation</b>	Specific test data for the mixture is not available
<b>Eye Contact</b>	Specific test data for the mixture is not available
<b>Skin Contact</b>	Specific test data for the mixture is not available
<b>Ingestion</b>	Specific test data for the mixture is not available

### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LD50
Black Developer for CX3535, CX4545	> 2,000 mg/kg		> 5.13 mg/L

**Symptoms** No information available

**Sensitization** Specific test data for the mixture is not available

**Mutagenic Effects** Negative in an Ames Test

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon Black		Group 2B		
Amorphous Silica		Group 3		

**Reproductive Toxicity** No information available

**STOT – single exposure** No information available

**STOT – repeated exposure** No information available

**Chronic Toxicity**

In 1996 the IARC reevaluated Carbon Black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free Carbon Black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between Carbon Black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner product containing Carbon Black demonstrated no association between toner exposure and tumor development in rats.

The formulation of the toner has Carbon Black only present in a bounded state and not in a free state.

In 1997, the IARC evaluated Amorphous Silica as a Group 3 Carcinogen since Amorphous Silica has no evidence presently as causing cancer to humans.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92 % of the rats in the high concentration (16 mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m<sup>3</sup>) exposure group. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust retained in the lungs for a prolonged period.

**Target Organ Effects** No information available

**Numerical measurements of toxicity:**

Not applicable

## 12. Ecological Information

**Ecotoxicity:** No information available

**Persistence and Degradability:**

Specific test data for the mixture is not available.

**Bioaccumulation:**

Specific test data for the mixture is not available.

**Other Adverse Effects:**

None known

## 13. Disposal Considerations

**Disposal Methods:**

The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Contaminated Packaging:**

Dispose of as unused product

**California Hazardous Waste Code:** 181

<b>14. Transportation Information</b>
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<b><u>DOT</u></b>	Not regulated
<b>Proper Shipping Name</b>	Not regulated
<b>Hazard Class</b>	N/A

<b><u>TDG</u></b>	Not regulated
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<b><u>MEX</u></b>	Not regulated
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<b><u>ICAO</u></b>	Not regulated
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<b><u>IATA</u></b>	Not regulated
<b>Proper Shipping Name</b>	Not regulated
<b>Hazard Class</b>	N/A

<b><u>IMDG/IMO</u></b>	Not regulated
<b>Hazard Class</b>	N/A

<b><u>RID</u></b>	Not regulated
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<b><u>ADR</u></b>	Not regulated
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<b><u>ADN</u></b>	Not regulated
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<b>15. Regulatory Information</b>
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**US Federal Regulations****SARA 313:**

Chemical Name	CAS Number	Concentration
None		

**US State Regulations****California Proposition 65:**

Not Regulated due to chemicals being chemically bound.

**US State Right to Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island
Carbon Black	X	X	X	X
Amorphous Silica	X	X	X	
Ceramic materials and wares, chemicals			X	X

### International Regulations

#### **Canada**

#### **WHMIS Hazard Classification:**

Non-controlled by definition of manufactured article

### International Inventories

**TSCA** All chemical substances in this product comply with all applicable rules or orders under TSCA.

**DSL/NDSL** All chemical substances in this product are exempt from DSL/NDSL chemical Inventory listing requirements.

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

## 16. Other Information

<b>NFPA</b>	<b>Health Hazards 0</b>	<b>Flammability 1</b>	<b>Instability 0</b>	<b>Physical and Chemical Hazards –</b>
<b>HMIS</b>	<b>Health Hazards 0</b>	<b>Flammability 1</b>	<b>Physical Hazards 0</b>	<b>Personal Protection - X</b>

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**Revision Note** No information available

#### **Disclaimer**

This bulletin cannot cover all possible situations, which the user may experience when using this product. Each aspect of your operation must be examined concerning if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin must be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.