Safety Data Sheet

SDS # : A-10025

Toner Cartridge - Black, Cyan, Magenta, Yellow

Issuing Date 2012-05-08 **Revision Date** 2017-02-07 **Version** 1

Active

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name Toner Cartridge for Phaser 6600, WorkCentre 6605, WorkCentre 6655, WorkCentre 6655i, Xerox® VersaLink C400, Xerox® VersaLink C405 Multifunction Printer

Part no. 106R02225, 106R02226, 106R02227, 106R02228, 106R02229, 106R02230, 106R02231, 106R02232, 106R02233, 106R02234, 106R02235, 106R02236, 106R02237, 106R02238, 106R02239, 106R02240, 106R02241, 106R02242, 106R02243, 106R02244, 106R02245, 106R02246, 106R02247, 106R02248, 106R02249, 106R02250, 106R02251, 106R02252, 106R02744, 106R02745, 106R02746, 106R02747, 106R02748, 106R02749, 106R02750, 106R02751, 106R02752, 106R02753, 106R02754, 106R02755, 106R03106, 106R03107, 106R03108, 106R03500, 106R03501, 106R03502, 106R03503, 106R03508, 106R03509, 106R03510, 106R03511, 106R03512, 106R03513, 106R03514, 106R03515, 106R03516, 106R03517, 106R03518, 106R03519, 106R03520, 106R03521, 106R03522, 106R03523, 106R03524, 106R03525, 106R03526, 106R03527, 106R03528, 106R03529, 106R03530, 106R03531, 106R03532, 106R03533, 106R03534, 106R03535, 106R03536, 106R03537, 106R03538, 106R03539

Color	Black, Cyan, Magenta, Yellow
Pure substance/mixture	Mixture
Identified uses	Xerographic printing
Manufactured by	Xerox Corporation Rochester, NY 14644
Emergency telephone	Safety Information US: (800) 275-9376 Chemical Emergency only (Chemtrec) (800) 424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which, in the form utilized and at their given concentrations, are considered to be hazardous to health.

Color	Appearance	Physical state	Odor
Black, Cyan, Magenta, Yellow	Powder	Solid	Faint

Classification of the substance or mixture

Customer use / Cartridges and sealed bottles

OSHA Hazard Classification This product is an article which contains a mixture / preparation in powder form. Safety information is given for exposure to the article as sold and used by the customer. Intended use of the product is not expected to result in exposure to the mixture / preparation based

on the packaging and method of dispensing.

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

Label elements

Signal Word None

Hazard Statements None required

Precautionary Statements None required

Potential Health Effects

Principle Routes of Exposure Inhalation

Acute Toxicity

Eyes No known effect

Skin No known effect

Inhalation No known effect

Ingestion No known effect

Chronic effects

Main symptoms **Overexposure may cause:**
mild respiratory irritation similar to nuisance dust.

Aggravated Medical Conditions None under normal use conditions

Environmental hazard The environmental impact of this product has not been fully investigated. However, this preparation is not expected to present significant adverse environmental effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description This formulation represents multiple colors and the component list includes multiple pigments. The actual toner formulation for each color will differ only in the pigment used.

Chemical Name	CAS No.	Weight %
Resin	Proprietary	70-90
Paraffin wax	8002-74-2	1-10
Magenta Pigment	980-26-7	0-10
Cyan Pigment	147-14-8	0-10
Carbon Black	1333-86-4	0-10
Yellow Pigment	6358-31-2	0-10
Titanium dioxide	13463-67-7	1-5

4. FIRST AID MEASURES

General advice For external use only. When symptoms persist or in all cases of doubt seek medical advice. Show this material safety data sheet to the doctor in attendance.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes

Skin contact Wash skin with soap and water

Inhalation	Move to fresh air
Ingestion	Rinse mouth with water and afterwards drink plenty of water or milk
Notes to physician	Treat symptomatically
Protection of first-aiders	No special protective equipment required

5. FIRE-FIGHTING MEASURES

Flammable properties	Not flammable. Will not readily ignite
Flash point	Not applicable
Suitable extinguishing media	Use water spray or fog; do not use straight streams, Foam
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

Hazardous combustion products	Hazardous decomposition products due to incomplete combustion, Carbon oxides, Nitrogen oxides (NOx)
Explosion Data	
Sensitivity to Mechanical Impact	Not impact sensitive
Sensitivity to Static Discharge	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

Protective Equipment and Precautions for Firefighters

In the event of fire and/or explosion do not breathe fumes. Wear fire/flame resistant/retardant clothing. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid breathing dust
Environmental Precautions	No special environmental precautions required
Methods for containment	Prevent dust cloud
Methods for cleaning up	Prevent dust cloud, Sweep up or vacuum up spillage and collect in suitable container for disposal, Use non-sparking tools and equipment
Other information	The environmental impact of this product has not been fully investigated, However, this preparation is not expected to present significant adverse environmental effects

7. HANDLING AND STORAGE

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice, Avoid dust accumulation in enclosed space, Prevent dust cloud
Technical measures and storage conditions	Keep container tightly closed in a dry and well-ventilated place, Store at room temperature

Hygiene measures None under normal use conditions

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines

No information available

Product Information

ACGIH TLV TWA	10 mg/m³ (inhalable particles)
ACGIH TLV TWA	3 mg/m³ (respirable dust)
OSHA PEL TWA	15 mg/m³ (total dust)
OSHA PEL TWA	5 mg/m³ (respirable dust)
Xerox Exposure Limit	2.5 mg/m³ (total dust)
Xerox Exposure Limit	0.4 mg/m³ (respirable dust)

Other information

The results obtained from a Xerox sponsored Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1 mg/m³) exposure level (the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of animals at the middle (4mg/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m³) exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with an EPA testing protocol.

Occupational exposure controls

Engineering measures None under normal use conditions

Personal Protective Equipment

Customer use / Cartridges and sealed bottles

Respiratory protection	No special protective equipment required
Eye/Face protection	No special protective equipment required
Skin and body protection	No special protective equipment required
Hand protection	No special protective equipment required

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder	**Odor**	Faint
Odor threshold	Not applicable	**Physical state**	Solid
pH	Not applicable	**Color**	Black, Cyan, Magenta, Yellow
Flash point	Not applicable	**Boiling point/range**	Not applicable
Softening point	49 - 60 °C / 120 - 140 °F	**Autoignition temperature**	Not applicable

Flammability Limits in Air Not applicable

Explosive properties Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

Vapor pressure	Not applicable
Vapor density	Not applicable
Water solubility	Negligible
Viscosity	Not applicable
Partition coefficient	Not applicable
Evaporation rate	Not applicable
Melting point/range	Not determined
Freezing point	Not applicable
Decomposition temperature	Not determined
Specific gravity	~ 1

10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of normal use
Stability	Stable under normal conditions
Incompatible products	None
Conditions to Avoid	Prevent dust cloud, Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard
Hazardous Decomposition Products	None under normal use
Hazardous polymerization	Hazardous polymerization does not occur
Hazardous reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

The toxicity data noted below is based on the test results of similar reprographic materials.

Acute Toxicity

Product Information

Irritation	No skin irritation, No eye irritation
Oral LD50	> 5 g/kg (rat)
Dermal LD50	> 5 g/kg (rabbit)
LC50 Inhalation	> 5 mg/L (rat, 4 hr)
Eyes	No known effect
Skin	No known effect
Inhalation	No known effect
Ingestion	No known effect

Chronic toxicity

Product Information

Chronic effects	No known effects under normal use conditions
Main symptoms	**Overexposure may cause:** mild respiratory irritation similar to nuisance dust.
Aggravated Medical Conditions	None under normal use conditions
Carcinogenicity	See "Other Information" in this section.

Chemical Name	IARC	NTP
Carbon Black	2B	
Titanium dioxide	2B	

Other information

The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". However, Xerox has concluded that the presence of carbon black in this mixture does not present a health hazard. The IARC classification is

based on studies evaluating pure, "free" carbon black. In contrast, toner is a formulation composed of specially prepared polymer and a small amount of carbon black (or other pigment). In the process of making toner, the small amount of carbon black becomes encapsulated within a matrix. Xerox has performed extensive testing of toner, including a chronic bioassay (test for potential carcinogenicity). Exposure to toner did not produce evidence of cancer in exposed animals. The results were submitted to regulatory agencies and published extensively.

The IARC (International Agency for Research on Cancer) has listed titanium dioxide as “possibly carcinogenic to humans”. However, Xerox has concluded that the presence of titanium dioxide in this mixture does not present a health hazard. The IARC classification is based on studies in rats using high concentrations of pure, unbound TiO2 particles of respirable size. The Titanium Dioxide Industry REACH Consortium has concluded that these effects were species-specific, attributable to lung overload and not specific to TiO2, i.e. similar effects would also be seen for other low solubility dusts. Toxicological and epidemiological studies do not suggest a carcinogenic effects in humans. In addition, the titanium dioxide in this mixture is encapsulated in a matrix or bound to the surface of the toner.

Other toxic effects

Product Information

Sensitization	No sensitization responses were observed
Mutagenic effects	Not mutagenic in AMES Test
Target organ effects	None known
Other adverse effects	None known
Aspiration Hazard	Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated. However, this preparation is not expected to present significant adverse environmental effects.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Contaminated packaging	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Note	This material is not subject to regulation as a hazardous material for shipping

15. REGULATORY INFORMATION

OSHA Regulatory Status
This product is an article which contains a mixture / preparation in powder form. Safety information is given for exposure to the article as sold and used by the customer. Intended use of the product is not expected to result in exposure to the mixture / preparation based on the packaging and method of dispensing.

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

International Inventories

TSCA	Complies
DSL/NDSL	Complies

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
Clean Water Act
This product is not regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product is not regulated as a hazardous air pollutant (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.
CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material
TSCA
TSCA 12(b) does not apply to this product.

US State Regulations

California Proposition 65
Carbon black is regulated under California Proposition 65 only if in the form of "airborne, unbound particles of respirable size". Toner products do not contain carbon black in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

Titanium dioxide is regulated under California Proposition 65 only if a product results in exposure in the form of "airborne, unbound particles of respirable size". Toner products do not result in exposure to titanium dioxide in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

Chemical Name	CAS No.	California Prop. 65
Carbon Black	1333-86-4	Carcinogen
Titanium dioxide	13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations
Although this product contains substances included in some U.S. State Right-to-Know regulations, the particles are bound in a unique matrix and, therefore, the product does not pose any specific hazard.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

Issuing Date	2012-05-08
Revision Date	2017-02-07
Revision Note	Part number(s) 106R3500, 106R3502, 106R3503, 106R3508 thru 106R3539 added
	Model(s) Xerox VersaLink C400, C405 Multifunction Printer added

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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