Other information
The results obtained from a Xerox sponsored Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1mg/m^3) 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/m^3)exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16mg/m^3) 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.

Biological standards

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Occupational Exposure Controls

Engineering Measures None under normal use conditions.

Industrial use
Avoid dust formation
Ensure all equipment is electrically grounded before beginning transfer operations
Provide appropriate exhaust ventilation at places where dust is formed

Personal Protective Equipment

Consumer use These recommendations apply to the product as supplied

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

Industrial use
In case of insufficient ventilation:
Wear protective eyewear (goggles)
Effective dust mask

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder			**Odor**	Faint
Odor Threshold	Not applicable			**Physical State**	Solid
pH	Not applicable			**Color**	Black, Yellow , Cyan , Magenta
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
Specific Gravity	Not applicable

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.
LD50 Oral:	> 5 g/kg (rat)
LD50 Dermal:	> 5 g/kg (rabbit)
LC50 Inhalation:	> 5 mg/L (rat, 4 hr)

Chronic toxicity

Product Information

Chronic Effects	No known effects under normal use conditions
Carcinogenicity	See "Other Information" in this section.

Chemical Name	IARC	NTP
Titanium dioxide	2B	

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

Other information
The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". The 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". The classification is based on studies in rats in which "lung particulate overload phenomenon" was observed. Based on the review of available study results, when this product is used as intended, Xerox has concluded that the presence of titanium dioxide does not present an increased risk of lung cancer or chronic respiratory disease.

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

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.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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 12b does not apply to this product.

U.S. 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.

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 MSDS contains all the information required by the CPR.
WHMIS Hazard Class
Not subject to WHMIS classification

16. OTHER INFORMATION

Issuing Date:	2011-02-10
Revision Date:	2011-02-10
Revision Note	(M)SDS sections updated.

Disclaimer
The information provided on this MSDS 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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