



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name **Black Toner For CS-2014,2114,2115,2218,2221,2225**
 Manufacturer **Kyocera Mita Corporation**
 Address **COPYSTAR, A DIVISION OF Kyocera Mita America, Inc. 225 Sand Road Fairfield, NJ 07004 (973)-808-8444**
 Telephone Number
 Date **December 1, 2003**

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Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL	ACGIH TLV	NOHSC	%
(CAS No. 1333-86-4) Carbon black	3.5mg/m ³	3.5mg/m ³	3.0mg/m ³	5-10
<i>(Non Hazardous Ingredients)</i>				
Styrene acrylate copolymer	Not listed	Not listed	Not listed	80-90
Iron Oxide (Fe ₂ O ₄)	Not listed	Not listed	Not listed	1-5
Polypropylene	Not listed	Not listed	Not listed	1-5

Section 3. Hazards Identification

Potential Health Effects

- Ingestion Ingestion is not applicable route of entry for intended use.
- Inhalation Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dusts.
- Eye Contact May cause eye irritation.
- Skin Contact Unlikely to cause skin irritation.

Section 4. First Aid Measures

First Aid Measures

- Ingestion Dilute stomach contents with several glasses of water and seek medical treatment.
- Inhalation Remove from exposure to fresh air.
- Eye Contact Flush thoroughly with water and seek medical treatment
- Skin Contact Wash with soap and water.



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Section 10. Stability and Reactivity

Stability	Stable
Conditions to avoid	None
Materials to Avoid	Strong oxidizers, Organic solvent
Hazardous Decomposition Products	None
Hazardous Polymerization	Will Not Occur
Conditions to avoid	None

Section 11. Toxicological Information

Acute oral toxicity	(rat)LD ₅₀ >2,000mg/kg (Based on the data of similar product)
Acute dermal toxicity	(rat)LD ₅₀ >2,000mg/kg (Based on the data of similar product)
Acute inhalation toxicity	(rat)LC ₅₀ (4HR)>3.50mg/l [the maximum attainable concentration] (Based on the data of similar product)
Acute eye irritation	(rabbit) Mild irritant (Based on the data of similar product)
Acute skin irritation	(rabbit) Non-irritant (Based on the data of similar product)
Skin sensitization	(guinea pig)0% sensitization rate (Based on the data of similar product)
Mutagenicity	Ames Test is Negative.
Reproductive Toxicity	No reproductive toxicant, according to Proposition 65 and EU Directive.
Carcinogenicity	No carcinogen or potential carcinogen (except carbon black), according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, Proposition 65, TRGS 905 and EU Directive.

In 1996, the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rat receiving chronic inhalation exposures to free carbon black at level 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's cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Chronic effects:

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 (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group. But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Others NONE