



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name **Black Toner For TASKalfa 2420w**
 Manufacturer Kyocera Mita Corporation
 Address Kyocera Mita America, Inc.
 225 Sand Road
 Fairfield, NJ 07004
 Telephone Number (973)-808-8444
 Date July 20, 2011

Section 2. Composition/Information on Ingredients

Hazardous Components (Chemical Identity, Common Name/s)	OSHA PEL Subpart Z	ACGIH TLV	IARC	NTP	Weight%
(CAS No. 1333-86-4) Carbon black	3.5mg/m ³ (TWA)	3.5mg/m ³ (TWA)	Group2B	Not Listed	3-7
(CAS No. 7631-86-9) Silica	80mg/m ³ %SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-3
(Non Hazardous Ingredients)					
Polyester resin 1					65-75
Polyester resin 2					15-25
Polypropylene					1-5

Section 3. Hazards Identification

(Potential Health Effects)

Ingestion Effects Ingestion is not applicable route of entry for intended use.
 Inhalation Effects Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.
 Eye Effects Solid or dusts may cause irritation or scratch the surface of the eye.
 Skin Effects Unlikely to cause skin irritation.

[Environmental Hazards]

No particular hazards known.

Section 4. First Aid Measures

Ingestion Dilute stomach contents with several glasses of water. Seek medical treatment if symptoms persist.
 Inhalation Move person to fresh air immediately. If symptoms occur, seek medical treatment.
 Eye Contact Immediately flush with large amount of clean water for at least 15 minutes. If irritation persists, seek medical treatment.
 Skin Contact Wash affected areas thoroughly with soap and water. If irritation persists, seek medical treatment.

Section 5. Fire Fighting Measures

Extinguishing Media	CO ₂ , water, dry chemical.
Special Fire-Fighting Procedure	None
Unusual Fire & Explosion Hazards	Toner material, like most organic material in powder form, is capable of creating a dust explosion.

Section 6. Accidental Release Measures

Spill and Leakage Procedure:	Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Gather the released toner, do not blow away and wipe up with a wet cloth. Dispose of waste toner in accordance with local requirements.
Environmental Precautions	Do not discharge into drains.

Section 7. Handling and Storage

Advice on safe handling and protection against fire:

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes.
Keep away from excessive heat, sparks, and open flames.

Requirements for storage rooms and advice on compatibility

Keep out of the reach of children. Keep container closed and store at room temperature.
Keep away from strong oxidizers.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits For Toner

ACGIH TLV(2008)-TWA Inhalable particulate 10mg/m³, Respirable particulate 3mg/m³

Respiratory Protection	Not required under intended use.
Ventilation	Good general ventilation should be sufficient under intended use.
Protective Gloves	Not required under intended use.
Eye Protection	Not required under intended use.
Other Protective Equipment	Not required under intended use.

Section 9. Physical and Chemical Properties

Appearance and odor	Fine black powder, slight plastic odor.
Density	1.1-1.3g/cm ³
Boiling Point	Not applicable
Melting Point	120-130 ⁰ C (Softening Point)
Vapor Pressure	Not applicable
Solubility in Water	Negligible
Solubility in Other Solvent	Partially soluble in toluene and THF.
Percent Volatile by Volume	Not applicable
Flammable Limits	Not applicable
Flammability:	No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous category of "extremely flammable", "highly flammable" and "flammable".
Explosibility	No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous category of "explosive".

Section 10. Stability and Reactivity

Stability/Reactivity	Stable. Hazardous polymerization will not occur
Materials to Avoid	None
Hazardous Decomposition Products	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.

Section 11. Toxicological Information

Acute Effects

Oral	Acute oral LD ₅₀ of the toner was estimated to be greater than 2000mg/kg in the rat.
Dermal	No data available. Based on the EC labeling criteria, any components of the toner are not classified as the dangerous category of "very toxic", "toxic" and "harmful" when absorbed via the skin.
Inhalation	No data available. Based on the EC labeling criteria, any components of the toner are not classified as the dangerous category of "very toxic", "toxic" and "harmful" when inhaled.
Eye Contact	Based on the EC labeling criteria, the toner was classified as a non-irritant to the ocular tissue of the rabbit.
Skin Contact	Based on the EC evaluation criteria, the toner was classified as a non-irritant to the skin of the rabbit.
Sensitization	No data available. Based on the EC labeling criteria, any components of the toner are not classified as the dangerous category of "sensitizing" if they penetrate the skin.

Chronic Toxicity

Oral	No data available. Based on the EC labeling criteria, any components in this product are not required a risk phrase R48(danger for serious damage to health by prolonged exposure).
Dermal	No data available. Based on the EC labeling criteria, any components in this product are not required a risk phrase R48(danger for serious damage to health by prolonged exposure).
Inhalation	No data available.

In a study in rats of chronic 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 animals in the middle group (4mg/m³) exposure group. But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposure).

Mutagenicity The result of the Ames test of the toner was negative.

Carcinogenicity No data available. Based on the EC labeling criteria, any components of the toner are not classified as the dangerous category of "carcinogenic" if they are inhaled or ingested or if they penetrate the skin.

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 preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Reproductive Toxicity No test data available. Based on the EC labeling criteria, any components of the toner are not classified as the dangerous category of "toxic for reproduction" if they are inhaled or ingested or if they penetrate the skin.

Section 12. Ecological Information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

Environmental Effects

No data available. Based on the EC labeling criteria, any components of the toner are not classified as the dangerous category of "dangerous for the environment".

Section 13. Disposal Considerations

[Waste From This Product]

Waste material may be dumped or incinerated on condition that meets all country, state and local environmental regulations. Consult with the disposal agency and the relevant authorities.

Cleansing agent is water.

Section 14. Transport Information

[International Transport Information]

UN Number	None.
Hazards Class	None.

Section 15. Regulatory Information

California Proposition 65

Ingredient carbon black subject to California Proposition 65 is bound in polymer-matrices so that warnings are not required.

Label Information According to the DIRECTIVE 1999/45/EEC (EU): None

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Canada: This product is not a WHMIS-controlled product.

[MSDS STATUS]

References:

1. COMMISSION DIRECTIVE 2004/73/EC of 29 April 2004 adapting to the technical progress for the 29th time Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.
2. DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations.

End of MSDS
