

Section 1. Chemical Product and Company Identification

Product Name Black Toner For TASKalfa 3500i, 4500i, 5500i

Manufacturer Kyocera Mita Corporation
Address Kyocera Mita Canada, Ltd.

6120 Kestrel Road

Mississauga, Ontario L5T 1S8

Telephone Number (905) 670-4425

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Section 2. Composition/Information on Ingredients

Hazardous Components					
(Chemical Identity, Common Name/s)	OSHA PEL SubpartZ	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	5-10
(CAS No. 66402-68-4) Ferrite (Ferrite including manganese)	5mg/m³(Ceiling) (Manganese compounds (asMn))	0.2mg/m³(TWA) (Manganese and inorganic compounds as Mn)	Not Listed	Not Listed	1-10 (as Mn:<2)
(CAS No. 7631-86-9) Amorphous silica	80mg/m³/%SiO ₂ (TWA)	Not Listed	Group3	Not Listed	1-5
(CAS No. 13463-67-7) Titanium dioxide	15mg/m ³ (Total Dust) (TWA)	10mg/m ³ (TWA)	Group 2B	Not Listed	<1
(Non Hazardous Ingredients)					
Polyester resin					65-75

Section 3. Hazards Identification

Most Important Hazards None Specific Hazards None

Other Information on Hazards:

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 transient eye irritation.

Skin Contact Unlikely to cause skin irritation.



Section 4. First Aid Measures

Inhalation Remove from exposure to fresh air and gargle with plenty of water.

Seek medical treatment in case of such a symptom as coughing.

Skin Contact Wash with soap and water. If irritation does occur, seek medical treatment.

Eye Contact Flush thoroughly with water and seek medical treatment if irritating. Ingestion Inge

Ingestion is not applicable route of entry for intended use. Rinse out mouth. Drink one or two glasses of water to dilute.

Seek medical treatment if necessary.

Section 5. Fire Fighting Measures

Extinguishing Media Water (Sprinkle with water), Foam, Powder, C0₂ or Dry Chemical Extinguisher.

Fire Fighting Procedure Pay attention not to blow away toner powder. Drain water off around and decrease

the atmosphere temperature to extinguish the fire.

Section 6. Accidental Release Measures

Personal Precautions Avoid inhalation, ingestion, eye and skin contact in case of accidental toner release.

Environmental Precautions Do not release into drains and surface water.

Method for Cleaning Up Gather the released toner, not blowing away, and wipe up with a wet cloth.

Section 7. Handling and Storage

Handling Keep the container tightly closed.

Keep away from children.

Storage Keep the container tightly closed and store in a cool, dry and dark place keeping

away from fire. Keep away from children.

Section 8. Exposure Controls/Personal Protection

Control Parameters<Reference Data>

ACGIH TLV₍₂₎-TWA Inhalable fraction 10mg/m³, Respirable fraction 3mg/m³

OSHA PEL₍₃₎-TWA Total dust 15mg/m³, Respirable fraction 5mg/m³

Protective Equipment

Respiratory Protection
Eye/Face Protection
Skin/Hand/Body Protection
None required under normal use.
None required under normal use.
None required under normal use.

Ventilation Ventilator is not required under normal use.



Section 9. Physical and Chemical Properties

Appearance

Physical state Solid

Fine powder Form Color Black Odor Odorless Not applicable рΗ Melting Point 100-120⁰C[Toner]

Dust explosion is improbable under normal use. Experimental explosiveness of toner **Explosion Properties**

is classified into the same rank such kind of powder as flour, dry milk and resin powder

according to the pressure rising speed.

Density 1.2-1.4g/cm³[Toner]

Almost insoluble in water. Solubility

Section 10. Stability and Reactivity

Stability/Reactivity Stable under normal use.

Hazardous Decomposition Products None

Section 11. **Toxicological Information**

Acute oral toxicity (rat)LD₅₀>2,000mg/kg (Estimated from other products containing same materials.)[Toner]

(rat)LD₅₀>2,500mg/kg (Estimated from the data of constituent materials.)[Carrier] (rat)LD₅₀>2,000mg/kg (Estimated from Acute oral toxicity for same product.)[Toner] Acute dermal toxicity (rat)LD₅₀>2,000mg/kg (Estimated from the data of constituent materials.)[Carrier]

(rat)LC₅₀(4hr)>5.0mg/l (Estimated from other products containing same materials.)[Toner] Acute inhalation toxicity (rabbit) Minimal irritant (Estimated from other products containing same materials.)[Toner] Acute eye irritation Acute skin irritation (rabbit) Non-irritant (Estimated from other products containing same materials.)[Toner]

(rabbit) Non-irritant (Estimated from the data of constituent materials.)[Carrier]

Skin sensitization (mouse)Non-Sensitiser (Estimated from other products containing same materials.)[Toner]

(quinea pig)Non-Sensitiser (Estimated from the data of constituent materials.)[Carrier]

Ames Test is Negative.[Toner] Mutagenicity

Ames Test is Negative. (Estimated from the data of constituent materials.)[Carrier]

Information of Ingredients: No mutagen, according to MAK, TRGS905 and (EC)No 1272/2008

AnnexVI Table3.2.

Reproductive Toxicity

Information of Ingredients: No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and (EC)No 1272/2008

Carcinogenicity

Information of Ingredients: No carcinogen or potential carcinogen (except carbon black and titanium dioxide) according to IARC,

Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65,

TRGS 905, and (EC)No 1272/2008 AnnexVI Table3.2.

The IARC reevaluated carbon black and titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure test in rats. But, oral/skin test does not show carcinogenicity. (4) The evaluation of carbon black 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. The studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors.

Moreover, a two-years cancer bioassay using a typical toner preparation containing carbon black demonstrated no association

between toner exposure and tumor development in rats₋₍₁₎ In the animal chronic inhalation studies for titanium dioxide, the lung tumor was observed in only rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon) (5) The inhalation of excessive titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation

between occupational exposure to titanium dioxide and respiratory tract diseases.

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.₍₁₎ But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Other Information: None



Section 12. Ecological Information

No data available.

Section 13. Disposal Considerations

Do not incinerate toner and toner containers. Dangerous sparks may cause burn.

Any disposal practice should be done under conditions which meet local, province and federal laws and regulations relating to waste (contact local or province environmental agency for specific rules).

Section 14. Transport Information

UN No. None
UN Shipping Name None
UN Classification None
UN Packing Group None
Special Precautions None

Section 15. Regulatory Information

US Information

All components in this product comply with order under TSCA.

EU Information Label information according to the Directives 67/548/EEC and 1999/45/EC

Symbol & Indication
R-Phrase
S-Phrase
Special markings
Hazardous ingredients for labeling
Not required
Not required
Not required
None

Canada Information

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

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. <Reference>

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H. Muhle et. al Fundamental and Applied Toxicology 17.280-299(1991)
- (2) ACGIH TLV (Threshold Limit Values)
- (3) OSHA PEL (Permissible Exposure Limits)
- (4) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93.
- (5) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT".
- *ISO 11014-1 Safety data sheet for chemical products.

<Abbreviation>

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety and Health Administration

TWA Time Weighted Average

IARC International Agency for Research on Cancer EPA Environmental Protection Agency (USA)

NTP National Toxicology Program

MAK Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft

Proposition 65:California Safe Drinking Water and Toxic Enforcement Act of 1986. TRGS905 Technische Regeln für Gefahrstoffe (Deutsche)

UN United Nations

TSCA Toxic Substances Control Act (USA)

WHMIS Workplace Hazardous Materials Information System(Canada)