



MATERIAL SAFETY DATA SHEET

No.29T-KMAS-02

Date: January 10, 2001

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Black Toner for PointSource Vi 230, 310, 400, 500 / KM-1510, 1530,
1810, 2030, 4230, 5230 (N29T)

Manufacturer

Name : KYOCERA MITA AUSTRALIA PTY. LTD.

Address : 6 - 10 Talavera Road
North Ryde NSW 2113

Telephone Number : 02-9888 9999

Not classified as hazardous according to Worksafe Australia

Section 2. COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Components (Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	NOHSC	%
Carbon black(CAS No.1333-86-4)	3.5mg/m ³	3.5mg/m ³	3.0mg/m ³	5-10
(Non Hazardous Ingredients)				
Styrene acrylate copolymer 1	Not listed	Not listed	Not listed	60-70
Styrene acrylate copolymer 2	Not listed	Not listed	Not listed	20-30
Paraffin wax	Not listed	Not listed	Not listed	1-5
Styrene acrylate copolymer 3	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.



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Skin Contact : Wash with soap and water.

Section 5. FIRE FIGHTING MEASURES

Extinguishing Media : Water, Foam, CO₂ or Dry chemical

Special Fire Fighting Procedures : Use self-contained breathing apparatus and protective gear in case of burning in large quantities.

Unusual Fire and Explosion Hazards: None under normal storage and use conditions.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : No special precaution.

Environmental Precautions: No special precaution.

Method for Cleaning Up : Clean up with a vacuum cleaner.

Section 7. HANDLING AND STORAGE

Handling : Avoid inhalation, ingestion, skin or eye contact. Keep away from children.

Storage : Store in a cool, dry and dark place.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines : See Section 2

Engineering Controls : None

Personal Protection Equipment(s)

Respiratory Protection : None required under normal use.

Eye/Face Protection : None required under normal use.

Skin Protection : None required under normal use.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Black fine powder

Odor : Odorless

pH : N.A.

Boiling Point : N.A.

Melting Point : 130?

Decomposition Temperature : No data available

Flash Point : No data available

Flammable(explosive) Limits : No data available

Autoignition Temperature : N.A.

Flammability : No data available

Explosive Properties : No data available

Oxidizing Properties : N.A.

Vapor Pressure : N.A.



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Vapor Density : N.A.
Density/Specific Gravity : 1.1(H₂O=1)
Water Solubility : Insoluble
Fat Solubility : No data available
Partition Coefficient(n-Octanol/Water) : No data available
Percent Volatile : N.A.
Evaporation Rate : N.A.

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)LD₅₀>2,000mg/kg
Acute dermal toxicity : (rat)LD₅₀>2,000mg/kg
(Estimated from Acute oral toxicity for same product.)
Acute inhalation toxicity : (rat)LC₅₀(4hr)>5.03mg/l
Acute eye irritation : (rabbit)Minimal irritant
Acute skin irritation : (rabbit)Non-irritant
Skin sensitisation : (guinea pig)0% sensitisation rate
Mutagenicity : Ames Test is Negative.
Reproductive Toxicity : No reproductive toxicant, according to MAK, Proposition 65, TRGS905 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.



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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.

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

Section 12. ECOLOGICAL INFORMATION

Mobility : No data available
Persistence Degradability : No data available
Bioaccumulation : No data available
Ecotoxicity : No data available
Other Adverse Effects : No data available

Section 13. DISPOSAL CONSIDERATIONS

Method of Disposal : Dispose in accordance with local, state and federal regulations.
Do not incinerate toner and toner containers. Dangerous sparks may cause burn.

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

Label information according to the Directives 88/379/EEC and 67/548/EEC(EU)

Symbol and Indication : Not required
R-Phrase : Not required
S-Phrase : Not required
Dangerous Component(s) : None
Other : None



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Section 16. OTHER INFORMATION

Contact Point: Technical Services Officer

KYOCERA MITA AUSTRALIA PTY. LTD.

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North Ryde NSW 2113

Emergency Telephone Number: 02-9888 9999

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.