

#### Chemical Product and Company Identification Section 1.

**Product Name** 

Black Toner For CS-1205,1415,1435,2054,2085

Manufacturer

Kyocera Mita Corporation

Address

COPYSTAR, A DIVISION OF Kyocera Mita America, Inc.

225 Sand Road

Fairfield, NJ 07004

Telephone Number

(973)-808-8444

Date

February 16, 2001

### 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/m³	3.5mg/m³	3.0mg/m <sup>3</sup>	5-10
	- (A. A. ) T	1		
(Non Hazardous Ingredients)				
Styrene acrylate copolymer	Not listed	Not listed	Not listed	80-90
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 stornach 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.



### 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 with a .5 micron filter or smaller.

#### Section 7. Handling and Storage

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

Store in a cool, dry and dark place. Storage

### 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

Odoriess Odor Ha N.A. N.A. **Boiling Point** Melting Point 144

Decomposition Temperature No data available Flash Point No data available Flammable (explosive) Limits No data available Autoignition Temperature N.A.

Flammability No data available No data available **Explosive Properties** 

Oxidizing Properties N.A. N.A. Vapor Pressure Vapor Density N.A. Density/Specific Gravity  $1.1(H_20=1)$ Water Solubility Insoluble No data available Fat Solubility

Partition Coefficient (n-OctanolWater) 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)LD<sub>50</sub>>2,000mg/kg(Estimated from other products containing same materials.)

Acute dermal toxicity (rat)LD<sub>50</sub>>2,000mg/kg(Estimated from other products containing same materials.)

Acute inhalation toxicity (rat

(rat)LC<sub>50</sub>(4hr)>5.46mg/l(Estimated from other products containing same materials.)

Acute eye irritation

(rabbit) Mild-irritant(Estimated from other products containing same materials.)

Acute skin irritation

(rabbit) Non-irritant(Estimated from other products containing same materials.)

Skin sensitization

(guinea pig)0% sensitization rate.

(Estimated from other products containing same materials.)

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.

Studies performed in animal models other than rats have not demonstrated an association between oarbon black and lung tumors. Moreover, a two-year's cancer bicassay 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.

## 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.



## Chemical Product and Company Identification

**Product Name** 

Black Developer For CS-1205,1415,1435,2054,2085

Manufacturer

Kyocera Mita Corporation

COPYSTAR, A DIVISION OF Kyocera Mita America, Inc.

Address

225 Sand Road Fairfield, NJ 07004

Telephone Number

(973)-808-8444

Date

February 16, 2001

### Section 2. Composition/Information on Ingredients

OSHA PEL	ACGIH TLV	NOHSC	%
Not listed	5mg/m³	Not listed	60-70
15mg/m³	10mg/m³	10mg/m <sup>3</sup>	10-15
5mg/m <sup>3</sup>	0,2mg/m <sup>3</sup>	5mg/m³	1-5
5mg/m³	2mg/m³	2mg/m³	1-5
3.5mg/m³	3.5mg/m <sup>8</sup>	3.0mg/m <sup>3</sup>	<1
Not listed	Not listed	Not listed	10-15
	-		
	Not listed 15mg/m³ 5mg/m³ 5mg/m³ 3.5mg/m³	Not listed 5mg/m³  15mg/m³ 10mg/m³  5mg/m³ 0,2mg/m³  5mg/m³ 2mg/m³  3.5mg/m³ 3.5mg/m³	Not listed 5mg/m³ Not listed  15mg/m³ 10mg/m³ 10mg/m³ 5mg/m³ 0.2mg/m³ 5mg/m³ 5mg/m³ 2mg/m³ 2mg/m³ 3.5mg/m³ 3.5mg/m³ 3.0mg/m³

### 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.



#### 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 with a .5 micron filter or smaller.

### 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

Eye/Face Protection

Skin Protection

None required under normal use.

None required under normal use.

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 1400

Decomposition Temperature No data available

Flash Point N.A. N.A. Flammable (explosive) Limits Autoignition Temperature N.A. Flammability N.A. **Explosive Properties** N.A. Oxidizing Properties N.A. Vapor Pressure N.A. Vapor Density N.A. Density/Specific Gravity  $5.2(H_20=1)$ Water Solubility Insoluble

Fat Solubility N.A.
Partition Coefficient (n-Octanol/Water) N.A.
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)LD<sub>50</sub>>5,000mg/kg.

Acute dermal toxicity

(rat)LD<sub>50</sub>>2,000mg/kg [Toner](Estimated from other products containing same materials.)

Acute inhalation toxicity

(rat)LC<sub>50</sub>(4hr)>5.46mg/I[Toner](Estimated from other products containing same materials.)

Acute eye imitation

(rabbit) Mild irritant[Toner](Estimated from other products containing same materials,)

Acute skin irritation

(rabbit) Non-irritant.

Skin sensitization

(guinea pig) 0% sensitization rate.

Mutagenicity

Ames Test is Negative.

Reproductive Toxicity

No reproductive toxicant, according to MAK, Proposition 65, TRGS 905

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



## 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.

#### 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.