MATERIAL SAFETY DATA SHEET

Date/ Revision: May 29, 2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Magenta Toner for FS-C1020MFP

Manufacturer

Name : KYOCERA MITA CORPORATION

Address : 2-28, 1-Chome, Tamatsukuri, Chuo-ku, Osaka, Japan, 540-8585

Supplier

Name : KYOCERA MITA Europe B.V

Address : Hoeksteen 40, 2132 MS Hoofddorp, Netherlands

Telephone Number : +31(0)20-6540000

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Substance or preparation ; Preparation

Ingredients ;

Chemical Name(Common Name)	CAS No.	Weight %
Polyester Resin 1	Confidential	40-60
Polyester Resin 2	Confidential	30-50
Organic Pigment	67990-05-0	1-10
Wax	Confidential	1-5
Silica	Confidential	1-5
Organic Salt	Confidential	1-5

This product does not contain any of the following substances as ingredients .
And if it contains any impurities, it does not exceed any of the thresholds of RoHS.

Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE).

3. HAZARDS IDENTIFICATION

The Most Important Hazards

Adverse Human Health Effects

There are no significant hazards expected with intended use.

Environmental Effects

There are no significant hazards expected with intended use.

Physical and Chemical Hazards

There are no significant hazards expected with intended use.

Specific Hazards

Dust explosion (like most finely grained organic powders)

Main Symptoms

Acute Inhalation Toxicity

Exposure to excessive amount of dust may cause physical irritation to respiratory tract .

Acute Oral Toxicity

Low acute toxicity in animal experiment.

Acute Eye Irritation

May cause slight transient irritation.

Acute Skin Irritation

May be non-irritant.

Sensitization

From test no apparent significant hazards are expected . (Only few cases reported on incidental allergy-related conjunctivitis or dermatitis.)

Chronic Effect

Slight pulmonary fibrosis has been reported in rats upon chronic inhalation exposure to a toner at 4mg/m^3 every day for 2 years. No pulmonary change was found at 1mg/m^3. These findings show that exposure to excessive amounts of powder may cause damage to lungs . However, normal use and handling of this product as intended, does not result in inhalation of excessive amounts of powder.

Carcinogenicity

This product does not contain the substances classified as carcinogenic by NTP , IARC or OSHA.

The Classification of The Chemical Product

This preparation is not classified as dangerous according to Directive 1999/45/EC.

4. FIRST-AID MEASURES

Inhalation

Remove from exposure into fresh air and rinse mouth with water. Seek medical advice.

Skin Contact

Wash thoroughly with soapy water.

Eye Contact

Flush with a large amount of water until particles are removed. Seek medical advice.

Ingestion

Drink several glasses of water to dilute ingested toner. Seek medical advice.

Notes to a physician

Not applicable

5. FIRE-FIGHTING MEASURES

Extinguishing Media

CO_2,dry chemicals,foam or water.

Extinguishing Media to Avoid

Not applicable.

Specific Hazards

Can form explosive dust-air mixtures when finely dispersed in air.

Specific Method

No special fire protecting method is required. Sprinkling or fire extinguishers can be used.

Protection of Fire-fighters

Wear gloves, glasses, a mask if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Do not breathe in dust.

Environment Precautions

Do not flush into sewers or watercourses.

Methods for Cleaning Up

Confirm there is no source of fire and if there is a source, remove it. Sweep up spilled powder slowly and clean remainder with wet cloth.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions

Not applicable

Safe Handling Advice

Do not handle in areas where there is wind or draught, this may cause dust to get into eyes. Avoid breathing in dust.

Storage

Technical Measures

Not applicable

Storage Conditions

Keep out of reach of children.

Store in dry, well-ventilated area, to maintain quality the temperature should not exceed 35 degrees centigrade for a long time. Avoid direct sunlight.

Packaging Material

Not applicable

Specific Use(s)

Image formation in printing machines or copiers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical Measures

Use adequate ventilation. None required with intended use.

Control Parameters

USA OSHA PEL (TWA)	: 15mg/m^3 (Total dust)	5.0mg/m^3 (Respirable fraction)
ACGIH TLV (TWA)	: 10mg/m^3 (Inhalable fraction)	3.0mg/m^3 (Respirable fraction)
DFG MAK	: 4.0mg/m^3 (Total dust)	1.5mg/m^3 (Respirable fraction)

Personal Protection

Respiratory Protections

None required in normal use. If the limit of exposure concentration is exceeded, use authorised respirator.

Hand Protection

Use vinyl or rubber gloves if necessary.

Eye Protection

Put on goggles if necessary.

Skin and Body Protection

Wear chemical-resistant apron or other impervious clothing if necessary.

Hygiene Measures

Wash hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State : Solid
Form : Powder
Colour : Magenta
Odour : Slightly plastic odour

Information

pH : Not applicable

Specific Temperatures/Temperature Ranges at Which Changes in Physical State Occur

Boiling Point (degrees centigrade) : Not applicable
Melting Point (degrees centigrade) : (Softening point) Approx.110

Decomposition Temperature (degrees centigrade) : Not available
Flash Point (degrees centigrade) : Not applicable
Explosion Properties (degrees centigrade) : This product is considered a nonexplosive material under normal use.
Vapor Pressure (Pa) : Not applicable
Vapor Density(AIR=1) : Not applicable
Density (g/cm^3) : Approx.1.2 Measuring Temp (degrees centigrade) : 25

Solubility

Water Solubility (g/L) : Insoluble
Chloroform Solubility (g/L) : Slightly soluble

Octanol/Water Partition Coefficient : Not available

Other Information

Flammability : Not flammable

Viscosity (Pa?s) : Not applicable

Volatile (%) : 0.2 or below

10. STABILITY AND REACTIVITY

Stability

Stable

Hazardous Reaction

Dust explosion, like most finely grained organic powders.

Conditions to Avoid

Not applicable in normal use.

Materials to Avoid

Not applicable in normal use.

Hazardous Decomposition Products

Decomposition products will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Acute Oral Toxicity (LD50) :

5000 or over (Rat) (Based on other product test results of similar ingredients.)

Acute Dermal Toxicity :

Not available

Acute Inhalation Toxicity :

Not available

Local effects

Acute Skin Irritation(PII) :

1.0 or below (Rabbit) (Based on other product test results of similar ingredients.)

Acute Eye Irritation :

Not available (Ingredients are not classified as dangerous according to Directive 67/548/EEC.)

Sensitization

Acute Allergenic Effects :

0 % (Marmot) (Based on other product test results of similar ingredients.)

Specific Effects

Carcinogenicity :

This product does not contain the carcinogenic substances which are listed on NTP , IARC and OSHA.

Mutagenicity : Negative (Ames test)

Reproduction Toxicity : Does not contain substances listed as hazardous to reproductive health .

12. ECOLOGICAL INFORMATION

Mobility : No data are available on any adverse effects on the environment .
Persistence/Degradability : Not available
Bioaccumulation : Not available
Ecotoxicity
Acute Toxicity for Fish (LC50) : Not classified as toxic (EU Directive 1999/45/EC)
Acute Toxicity for Daphnia (EC50) : Not classified as toxic (EU Directive 1999/45/EC)
Algae Inhibition Test (IC50) : Not classified as toxic (EU Directive 1999/45/EC)

13. DISPOSAL CONSIDERATIONS

General information:
Dispose of waste and residues in accordance with local authority requirements .
Disposal methods:
Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Confirm disposal procedures with local regulations.
Precautions:
Do not throw the toner cartridge or toner into an open flame. Hot toner may scatter and cause burns or other damage.

14. TRANSPORT INFORMATION

International Regulations
Land Transport
RID/ADR : Not applicable
DOT 49 CFR : Not applicable
ADNR : Not applicable
Sea Transport
IMDG Code : Not applicable
Air Transport
ICAO-TI/IATA-DGR : Not applicable
The UN Classification Number : Not applicable
Specific Precautionary Transport Measures and conditions
Avoid direct sunlight in quality.

15. REGULATORY INFORMATION

Regulations
EU Information
Information on the label (1999/45/EC and 67/548/EEC)
Symbols & Indications : Not required
R-Phrase : Not required
S-Phrase : Not required

Special Precautions under 1999/45/EC Annex V : Not required

76/769/EEC

This product complies with applicable rules and regulations under 76/769/EEC.

304/2003/EC

Not regulated

US Information

Information on the label : Not required

TSCA (Toxic Substances Control Act) :

This toner complies with all applicable rules and regulations under TSCA.

SARA Title III

313 Reportable Ingredients : Not regulated

California Proposition 65 : Not regulated

Canada Information

WHMIS Controlled product : Not a controlled product

16. OTHER INFORMATION

NFPA Hazard Rating: National Fire Protection Agency (USA)

Health ; 1, Flammability ; 1, Reactivity ; 0

HMIS Rating : The National Paint and Coating Association (USA)

Health ; 1, Flammability ; 1, Reactivity ; 0

Literature References :

ANSI Z400.1-1993

ISO 11014-1

IARC (1996) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds", Lyon, pp149-261

H. Muhle, B. Bellman, O. Creutzenberg, C. Dasenbrock, H. Emst, R. Kilpper, J.C. MacKenzie, P. Morrow, U. Mohr, S.Takenaka and R. Mermelstein(1991) "Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats"
Fundamental and Applied Toxicology 17, pp 280-299

IARC (2008) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans , Vol.93"

NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

ACGIH-TLV : Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

OSHA Z-Tables : US Department of Labor, 29CFR Part 1910 , Tables Z-1, Z-2, and Z-3

NTP (USA) : US Department of Health and Human Services National Toxicology Program Annual Report on Carcinogens

DFG-MAK : DFG List of MAK and BAT Value
Symbol (EC) : EU Directive 67/548/EEC
91/155/ EEC : EU Directive 91/155/ EEC
1999/45/EC Annex V : EU Directive 1999/45/EC
76/769/ EEC : EU Directive 76/769/ EEC
EC 304/2003 : Regulation (EC) No 304/2003 of the European Parliament and of the Council of 28 January 2003 concerning the export and import of dangerous chemicals
WHMIS Controlled product : Canada Workplace Hazardous Information System
OELs-TWA (Australia) : Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 3008 (1995)]

Abbreviations :

OSHA PEL	PEL (Permissible Exposure Limit) under Occupational Safety and Health Act
ACGIH-TLV	TLV (Threshold Limit Values) under American Conference of Governmental Industrial Hygienists
DFG-MAK	MAK (Maximale Arbeitsplatz Konzentrationen) by Deutsche Forschungs Gemeinschaft
RoHS	Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
WHMIS	Workplace Hazardous Information System
NOHSC	National Occupational Health and Safety Commission Act 1985

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However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.