



MATERIAL SAFETY DATA SHEET

Date/ Revision: May 15, 2007

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Magenta developer for KM-C2520, C3225, C3232, C2525E, C3225E, C3232E, C4035E

Manufacturer
Name : KYOCERA MITA CORPORATION
Address : 2-28, 1-Chome, Tamatsukuri, Chuo-ku, Osaka, Japan, 540-8585

Contact Point
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

Major Ingredients ;

Chemical Name(Common Name)	CAS No.	Weight %
Iron oxide	1309-37-1	60-70
Manganese oxide	1344-43-0	20-30
Polyester resin	-	5-10
Magnesium oxide	-	1-5

3. HAZARDS IDENTIFICATION

Most Important Hazards : Not classified as dangerous.(1999/45/EC)

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 eye irritation.

Skin Contact : Unlikely to cause skin irritation.

4. FIRST-AID MEASURES

- Inhalation : Remove from exposure to fresh air and gargle with plenty of water.
Consult a doctor in case of such a symptoms as coughing.
- Skin Contact : Wash with soap and water.
- Eye Contact : Flush with water immediately and see a doctor if irritating.
- Ingestion : Rinse out the mouth. Drink one or two glasses of water to dilute.
Seek medical treatment if necessary.
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5. FIRE-FIGHTING MEASURES

- Extinguishing Media : Water (Sprinkle with Water), Foam, Powder, CO₂ 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.
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6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions : Avoid inhalation, ingestion, eye and skin contact in case of
accidental toner release.
- Environmental Precautions : No special precaution.
- Method for Cleaning Up : Gather the released toner not to blowing away and
wipe up with a wet cloth.
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7. HANDLING AND STORAGE

- Handling : Never open the developer unit.
- Storage : Keep the developer unit tightly closed and store in a cool, dry and
dark place keeping away from fire.
Keep away from children.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Control Parameters<Reference Data>:
- ACGIH TLV(2000) : Iron oxide 5mg/m³ , Manganese oxide 0.2mg/m³,
Total Dust 10mg/m³
- OSHA PEL(1993) : Manganese oxide 5mg/m³ , Total Dust 15mg/m³
- Protective Equipment : Respiratory protection, eye protection, hand protection, skin and
body protection are not required under normal use.
- Ventilation : Ventilator is not required under normal use.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	Solid	Form:	Fine powder	Color:	Magenta	Odor:	Odorless
pH	: N.A.						
Melting Point	: N.A.						
Explosion Properties	: Dust explosion is improbable under normal use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.						
Specific Gravity	:3.5 (H ₂ O=1)						
Solubility	: Almost insoluble in water						

10. STABILITY AND REACTIVITY

Stability/ Reactivity	: Stable under normal use.
Hazardous Decomposition Products	: None

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: No data available
Acute dermal toxicity	: No data available
Acute inhalation toxicity	: No data available
Acute eye irritation	: No data available
Acute skin irritation	: No data available
Skin sensitisation	: No data available
Mutagenicity	: Ames Test is Negative. [Toner] Ames Test is Negative. [Carrier] (Estimated from the data of constituent materials)
Reproductive Toxicity	: No reproductive toxicant, according to MAK, California Proposition 65, TRGS905 and EU Directive(67/548/EEC).
Carcinogenicity	: No carcinogen or potential carcinogen, according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK, California Proposition 65, TRGS 905 and EU Directive(67/548/EEC).

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.
Other information : None

12. ECOLOGICAL INFORMATION

No data available

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, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

EU Information

Label information according to the Directives 67/548/EEC and 1999/45/EEC.

Symbol and Indication : Not required
R-Phrase : Not required
S-Phrase : Not required
Special markings : Not required
Hazardous ingredients for labeling: Not required

US Information

All components in this product comply with order under TSCA.

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.

<Abbreviation>

ACGIH	: American Conference of Governmental Industrial Hygienists
PEL	: Permissible Exposure Limit
OSHA	: Occupational Safety and Health Administration
TLV	: Threshold Limit Value
MAK	: MAK(Maximale Arbeitsplatzkonzentrationen) unter Deutsche Forschungsgemeinschaft
TRGS	: Technische Regeln für Gefahrstoffe(Deutsche)
IARC	: International Agency for Research on Cancer
EPA	: Environmental Protection Agency(USA)
NTP	: National Toxicology Program
ILO	: International Labour Office
UN	: Nnited Nations
TSCA	: Toxic Substances Control Act(USA)

<Reference>

- ISO 11014-1 Safety data sheet for chemical products
- Commission Directive 91/155/EEC and 2001/58/EC
- Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats
H.Muhle et.al
Fundamental and Applied Toxicology 17.280-299(1991)
- Lung Clearance and Retention of Toner, Utilizing a Tracer Technique,
during Chronic Inhalation Exposure in Rats
B.Bellmann
Fundamental and Applied Toxicology 17.300-313(1991)