



***Tally***<sup>®</sup>

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# Material Safety Data Sheet

T8x04 & T8x06

Magenta Toner

044954/083233 & 044995/ 083203

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MATERIAL SAFETY DATA SHEET

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Magenta toner 083233 083203 Date of preparation : August 5, 1999

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SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

PRODUCT NAME : HM-70

DESCRIPTION: Toner powder for Laser Beam Printer.

1.2 COMPANY/UNDERTAKING IDENTIFICATION

MANUFACTURER: Hitachi, Ltd. Toyokawa Works

9-5 Noguchimae, Shiratori-cho, Toyokawa-shi, Aichi, JAPAN 442-0848

Tel: 0533-89-8020

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS OF TONER

<u>Principal Components (CAS No.)</u>	<u>mass%</u>	<u>EU<sup>1)</sup></u>	<u>OSHA<sup>2)</sup></u>	<u>ACGIH<sup>3)</sup></u>	<u>DFG<sup>4)</sup></u>
Polyester Resin(41259-36-3)	>79%	—	—	—	—
Polypropylene Wax(9003-07-0)	0.5-5%	—	—	—	—
Organic Boron Compound(114803-11-1)	0.1-3%	—	—	—	—
Organic Pigment (980-26-7)	3-10%	—	—	—	—
Silica(68909-20-6)	<3%	—	—	—	—

—: Not designated.

SECTION 3 HAZARDS IDENTIFICATION OF TONER

POTENTIAL HEALTH EFFECTS:

INGESTION: Ingestion is not applicable route of entry for intended use.

**INHALATION:** Minimum respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust.

**EYE CONTACT:** May cause eye irritation.

**SKIN CONTACT:** Unlikely to cause skin irritation.

#### SECTION 4 FIRST AID MEASURES ON TONER

**INGESTION:** If swallowed, do not induce vomiting. Call a physician.

**INHARATION:** Remove to fresh air. Treat any irritation symptomatically. Call a physician.

**EYE CONTACT:** In case of contact, immediately flush with plenty of low pressure water for at least 15 minutes. Call a physician.

**SKIN CONTACT:** Wash with soap and running water.

#### SECTION 5 FIRE FIGHTING MEASURES ON TONER

**FLASH POINT(Method used):** No data available

**IGNITION TEMPERATURE:** No data available

**FLAMMABILITY:** No data available

**FLAMMABLE LIMIT:** No data available

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, Form, Water, Dry Chemicals

**SPECIAL FIRE FIGHTING PROCEDURES:** None. Keep sources of ignition at a distance.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Toner is combustible. Explosive limits of toner particles suspended in air approximately equal to that of coal dust.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Loose toner can be removed using vacuum cleaner. Residue can be removed with soap and water.

#### SECTION 7 HANDLING AND STORAGE

- a) Storage; Store container in a dry / cool place.
- b) Handling; Open and handle container with care.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

##### EXPOSURE LIMITS FOR TONER:

**USA OSHA(TWA<sup>3</sup>/PEL):** No data available

**ACGIH(TWA/TLV):** No data available

**DFG(MAK):** No data available

(Also refer to SECTION 2.)

RESPIRATORY PROTECTION:	None (under normal use)
VENTILATION:	Good general ventilation should be sufficient under intended use.
PROTECTIVE GLOVES:	Not necessary.
EYE PROTECTION:	Not required under intended use.
OTHER PROTECTIVE EQUIPMENT:	Not required under intended use.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES OF TONER

BOILING POINT:	N.A. (Not applicable)
SOFTNING POINT:	95-110 °C
VAPOR PRESSURE (mmHg):	N.A.
VAPOR DENSITY (AIR=1):	N.A.
SOLUBILITY IN WATER:	Negligible
SOLUBILITY IN ORGANIC SOLVENTS:	Soluble in toluene and methyl ethyl ketone.
SPECIFIC GRAVITY (H : O=1):	1.1
PERCENT VOLATILE BY VOLUME:	N.A.
EVAPORATION RATE (BUTHYL ACETON=1):	N.A.
PH:	N.A.
APPEARANCE AND ODOR:	Magenta fine powder, slight plastic odor.

### SECTION 10 STABILITY AND REACTIVITY OF TONER

STABILITY:	Stable
INCOMPATIBILITY:	Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS:	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.
HAZARDOUS POLYMERIZATION:	Will not occur

### SECTION 11 TOXICOLOGICAL INFORMATION ON TONER

ACUTE TOXICITY:	
INGESTION:	No data available
EYE CONTACT:	No data available
SKIN CONTACT:	No data available
CHRONIC TOXICITY:	No data available
OTHER TOXIC DATA:	
MUTAGENECITY:	Negative (Ames Test: Salmonella typhimurium and Escherichia coli)

CARCINOGENECITY:

(2QTT2W0490)

No carcinogen or potential carcinogen, according to IARC Monographs<sup>9</sup>, NTP<sup>11</sup>, OSHA(USA) regulation.

SECTION 12 ECOLOGICAL INFORMATION

No data are available as to its effects on the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Taking into consideration the local authority regulation, it must undergo a special treatment, e.g. suitable disposal site.

SECTION 14 TRANSPORT INFORMATION ON TONER

INTERNATIONAL TRANSPORT INFORMATION:

UN NO.: None

HAZARD CLASS: None

PACKING GROUP: None

SPECIAL PRECAUTIONS: None

SECTION 15 REGULATORY INFORMATION

CHEMICALS REQUIRED TO REPORT UNDER SARA TITLE III § 313(USA):

None

LABEL INFORMATION ACCORDING TO THE DIRECTIVE 88/379EEC AND 67/548/EEC (EU):

SYMBOL AND INDICATIONS: None

R PHRASES: None

S PHRASES: None

DANGEROUS COMPONENT(CAS No.) mass%

None

OTHER: None

SPECIFIC PROVISIONS IN RELATION TO PROTECTION OF MAN  
OR THE ENVIRONMENT(EU):

REGURATION(EEC)2455/92: None

DIRECTIVE76/769/EEC: None

OTHER: None

SECTION 16 OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or any other process. It is based on the level of our knowlege as of the date of preparation.

Abbreviations

- 1) "EU"stands for ILV(Indication Limit Value)under EU Directive 91/322/EEC.
- 2) "OSHA"stande for PEL(Permissible Exposure Limit )under Occupational Safety and Health Administration.
- 3) "ACGIH"stands for TLV(Theshold Limit Value)under American Conference of Governmental Industrial Hygienists.
- 4) "DFG"stands for MAK(Maximale Arbeitsplatzkonzentrationen)under Duetsche Forschungsgemeinschaft.
- 5) "TWA"stands for Time Weighted Average.
- 6) "IARC"stands for International Agency for Reserch on Cancer.
- 7) "NTP"stands for National Toxicology Program(USA).