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## MATERIAL SAFETY DATA SHEET

**For Medical Emergencies call: 1-800-328-5274**

**For Transport/Spill Emergencies call: Chemtrec 1-800-424-9300 (USA) or 1-202-483-7616 (Outside USA)**

Effective Date: 08/31/2006

Supercedes:

## CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MATERIAL TYPE:** Toner Cartridges

**MSDS ID:** 21-2633-2

**ITEM NUMBER:** 66000096173

**PRODUCT NAME:** Imation EarthWise HP Colour Laser Jet 5500, 5550 Series C9732A (with chip) Yellow

**BRAND:** Imation

**MANUFACTURER/PRODUCT DESCRIPTION:** Mitsubishi Kagaku Imaging Corporation/MN.C55Y17 Toner - HP5500CHEMY10KG

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# Material Safety Data Sheet

Issue Date: 8/31/2006

MSDS Number: TN367

Product Name: MN.C55Y17 Toner

Revision: [00]08/31/2006

## Section 1 - Chemical Product and Company Identification

Product Name: MN.C55Y17 Toner

Chemical Formula NA

CAS Number: NA (mixture)

General Use: Toner

Future Graphics LLC Part Number: HP5500CHEMY10KG

Company Name: Mitsubishi Kagaku Imaging Corporation

Distributor: Future Graphics LLC

Street Address: 401 Volvo Parkway

Street Address: 1175 Aviation Place

Town: Chesapeake

Town: San Fernando

State: Virginia

State: California

Zip Code: 23320

Zip Code: 91340

Emergency Contacts: Chemtrec 1-800-424-9300

Other Contacts: Future Graphics LLC 800-394-9900

Health

1

Fire

1

Reactivity

0

PPE

(See Sec. 8)

## <<<>>> EMERGENCY OVERVIEW <<<>>>

This product may cause irritation of the respiratory system, eyes, and skin. This product is stable under normal conditions of use.

## Section 2 - Composition and Information on Ingredients

| <u>Ingredient</u> | <u>Pigment</u> | <u>CAS No.</u> | <u>Proprietary</u> | <u>% in Mixture</u> | <u>1-20</u> |
|-------------------|----------------|----------------|--------------------|---------------------|-------------|
|                   | OSHA           | ACGIH          | NIOSH              | UNIT OF MEASURE     |             |
| TWA               | NE             | NE             | NE                 | mg/cu.meter         |             |
| STEL              | NE             | NE             | NE                 | mg/cu.meter         |             |
| IDLH              | NA             | NA             | NE                 | mg/cu.meter         |             |

| <u>Ingredient</u> | <u>Silica, amorphous</u> | <u>CAS No.</u> | <u>Proprietary</u> | <u>% in Mixture</u> | <u>&lt;5</u> |
|-------------------|--------------------------|----------------|--------------------|---------------------|--------------|
|                   | OSHA                     | ACGIH          | NIOSH              | UNIT OF MEASURE     |              |
| TWA               | 80 / % SiO2              | 10             | 6                  | mg/cu.meter         |              |
| STEL              | NE                       | NE             | NE                 | mg/cu.meter         |              |
| IDLH              | NA                       | NA             | NE                 | mg/cu.meter         |              |

| <u>Ingredient</u> | <u>Styrene Acrylate Copolymer</u> | <u>CAS No.</u> | <u>Proprietary</u> | <u>% in Mixture</u> | <u>70-95</u> |
|-------------------|-----------------------------------|----------------|--------------------|---------------------|--------------|
|                   | OSHA                              | ACGIH          | NIOSH              | UNIT OF MEASURE     |              |
| TWA               | NE                                | NE             | NE                 | mg/cu.meter         |              |
| STEL              | NE                                | NE             | NE                 | mg/cu.meter         |              |
| IDLH              | NA                                | NA             | NE                 | mg/cu.meter         |              |

\* TOTAL DUST / INHALABLE DUST

\*\* RESPIRABLE DUST

\*\*\* Refer to Section 11 - Toxicological Information

### OVERALL MIXTURE:

This product is a mixture of dry chemical components. OSHA regulatory limits set for PARTICULATES NOT

OTHERWISE CLASSIFIED are: 15 mg/cu.meter for TOTAL DUST / INHALABLE DUST and 5 mg/cu.meter for RESPIRABLE DUST.

### Section 3 - Hazards Identification

**Primary Entry Routes:**

Absorption, Ingestion, Inhalation

**Target Organs:**

NA

**Inhalation Effects:**

Slight irritation of respiratory tract.

**Eye Effects:**

Dust may cause irritation by mechanical abrasion.

**Skin Effects:**

May cause skin irritation.

**Ingestion Effects:**

NA

**Carcinogenicity:**

NA

**Medical Conditions Aggravated by Long-term Exposure:**

Accumulation of dust in the respiratory system may cause moderate congestion.

**Chronic Effects and/or Recommendations:**

If use generates airborne particles, treat as a NUISANCE PARTICULATE (ACGIH TLV = 10 mg/cu. meter).

### Section 4 - First Aid Measures

**Inhalation:**

Protect yourself with appropriate PPE, remove the person to fresh air. Decontaminate and begin rescue breathing if breathing has stopped and CPR if heart action has stopped. Seek prompt medical attention.

**Eye:**

DO NOT allow victim to rub or keep eyes tightly shut. Gently lift eyelids and immediately flush eyes with large amounts of water. Remove any contact lenses. Continue to flush for at least 30 minutes, occasionally lifting the upper and lower lids. Seek prompt medical attention.

**Skin:**

Quickly remove contaminated clothing. Immediately wash area with large amounts of water. Seek prompt medical attention for any reddened skin other than from washing.

**Ingestion:**

Never give anything by mouth to an unconscious or convulsing person. Contact a Poison Control Center (PCC). Unless the PCC advises otherwise, have the conscious and alert person drink 1 to 2 glasses of water to dilute. Induce vomiting only after recent ingestions due to the possibility of seizures. Seek prompt medical attention.

**Additional First Aid Information:**

NA

### Section 5 - Fire Fighting Measures

|                                     |             |                                   |
|-------------------------------------|-------------|-----------------------------------|
| <b>Flash Point:</b>                 |             | <b>Flash Point Method:</b>        |
| NA                                  |             | NA                                |
| <b>Flammability Classification:</b> |             | <b>Auto Ignition Temperature:</b> |
| 1 Slight (HMIS, NFPA)               |             | ND                                |
| <b>LEL:</b>                         | <b>UEL:</b> | <b>Burning Rate:</b>              |
| NA                                  | NA          | NA                                |

**Extinguishing Media:**

Water spray, dry chemical, foam, carbon dioxide, or halon-type extinguishers.

**Unusual Fire / Explosion Hazards:**

May form flammable dust-air mixture.

**Hazardous Combustion Products:**

Carbon monoxide, carbon dioxide, nitrogen oxide, and smoke. Under certain conditions some aliphatic aldehydes and carboxylic acids may form.

**Fire-Fighting Instructions:**

Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:**

Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

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## Section 6 - Accidental Release Measures

**Containment Method:**

When cleaning up spilled material, keep unnecessary people away, isolate area, and deny entry until the spilled material has been removed. Scoop up material and place in a chemical waste container. Suction up remaining material using a high efficiency vacuum cleaner. Avoid suspending particles in the air. Extreme caution should be used as material presents a slip hazard.

**Reporting Requirements:**

Follow applicable OSHA regulations (29 CFR 1910.120).

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## Section 7 - Handling and Storage

**Handling Precautions:**

Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.

**Storage Requirements:**

Product is prone to gradual oxidation which may reduce quality over time.

**Regulatory Requirements:**

Follow all applicable local, state, and Federal regulations.

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## Section 8 - Exposure Controls and Personal Protection

**Ventilation**

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Respiratory Protection**

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. WARNING! Air purifying respirators do not protect worker in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning and convenient, sanitary storage areas.

**Protective Clothing and Equipment**

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splash-proof chemical goggles and face shield when working with liquid, unless full facepiece respiratory protection is worn. Contact lenses are not eye protective devices. Appropriate eye protection must be worn

instead of, or in conjunction with contact lenses.

### Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

### Contaminated Equipment

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment. Never take home contaminated clothing.

### Comments

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or apply cosmetics.

### Additional Information

NA

## Section 9 - Physical and Chemical Properties

|                              |   |   |  |
|------------------------------|---|---|--|
| <b>Boiling Point:</b><br>NA  | <b>Freezing or Melting Point:</b><br>100 - 150 degree centigrade. | <b>Odor Threshold:</b><br>ND                        | <b>Physical State:</b><br>Solid  |
| <b>Viscosity:</b><br>NA      | <b>Refractive Index:</b><br>NA                                    | <b>Vapor Density (Air = 1)</b><br>Heavier than air. | <b>Appearance and Odor:</b><br>Yellow fine powder, faint odor.         |
| <b>% Volatiles:</b><br>NA    | <b>Surface Tension:</b><br>NA                                     | <b>Vapor Pressures:</b><br>NA                       | <b>Water Solubility:</b><br>Negligible                                 |
| <b>Density:</b><br>1.0 - 2.0 | <b>Evaporation Rate:</b><br>NA                                    | <b>Formula Weight:</b><br>NA                        | <b>Other Solubilities:</b><br>Partially soluble in toluene and xylene. |
| <b>pH:</b><br>NA             | <b>Specific Gravity where Water = 1 at 4 deg C</b><br>NA          | <b>Additional Comments:</b><br>NA                   |  |

## Section 10 - Stability and Reactivity

| <b>Stability:</b>                        | <b>Polymerization:</b>                 | <b>Hazardous Decomposition Products:</b>   |
|--|--|--|
| Stable under conditions of normal use.   | Hazardous polymerization cannot occur. | Combustion will produce carbon dioxide and possibly toxic chemicals such as carbon monoxide. |
| <b>Chemical Incompatibilities:</b><br>NA |  |  |
| <b>Conditions to Avoid:</b><br>NA        |  |  |
| <b>Other Comments:</b><br>NA             |  |  |

## Section 11 - Toxicological Information

Checked box indicates that related health effects criteria applies to the overall mixture.

Eye Effects ☐ Acute Oral Effects ☐ Acute Inhalation Effects ☐ Mutagenicity ☐  
Skin Effects ☐ Chronic Effects ☐ Carcinogenicity ☐ Teratogenicity ☐

**EXPLANATION of HEALTH EFFECTS:**

Ames Test Negative. LD50 > 5000 mg/kg.

**EXPLANATION of TOXICOLOGICAL CRITERIA:**

**Chemical Component:** Pigment

May cross react with similar compounds. Some azo dyes may cause irritation, allergic contact dermatitis, nausea, vomiting, abdominal pain, diarrhea, fever, general malaise, and hypotension.

**Chemical Component:** Silica, amorphous

SILICON DIOXIDE:

CARCINOGEN STATUS: IARC: Human Inadequate Evidence, Animal Inadequate Evidence, Group 3, (Amorphous silica)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: respiratory disorders

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE: SILICON DIOXIDE: Dusts may cause irritation of the respiratory tract and coughing.

CHRONIC EXPOSURE: SILICON DIOXIDE: Exposure to dusts of amorphous silica for 6 months to 30 years may result in silicosis with symptoms of cough, chest pain, dyspnea, tachypnea, marked weakness, and weight loss. This pulmonary insufficiency may be characterized by diffuse nodular fibrosis, distortion of bronchi, bullous emphysema. Although pulmonary fibrosis has been reported from the workers exposed to amorphous silica, the crystalline form is the established cause of fibrotic response in the lung. However, the amorphous form has been reported as fibrogenic to a lesser extent. As the disease progresses, cor pulmonale, cardiorespiratory failure, and death may occur.

SKIN CONTACT:

ACUTE EXPOSURE: SILICON DIOXIDE: Prolonged skin contact with dry particulate may cause drying of the skin.

CHRONIC EXPOSURE: SILICON DIOXIDE: No data available.

EYE CONTACT:

ACUTE EXPOSURE: SILICON DIOXIDE: Dusts may cause irritation with redness and pain.

CHRONIC EXPOSURE: SILICON DIOXIDE: No data available.

INGESTION:

ACUTE EXPOSURE: SILICON DIOXIDE: The effects of ingestion are purely mechanical as the substance is inert chemically and biologically.

CHRONIC EXPOSURE: SILICON DIOXIDE: No data available.

**Chemical Component:** Styrene Acrylate Copolymer

Data Not Available

## Section 12 - Ecological Information

Checked box indicates that information regarding the criteria applies to the overall mixture.

Ecotoxicity ☐ Environmental Fate ☐ Environmental Degradation ☐ Soil Absorption and Mobility ☐

**EXPLANATION of APPLICABLE ECOLOGICAL CRITERIA:**

NA

## Section 13 - Disposal Considerations

**Disposal:**

Waste material may be disposed of, incinerated, or recycled for its iron oxide under conditions that meet all Federal, State and Local regulations. Contact your supplier or a licensed contractor for detailed recommendations.

**Disposal Regulatory Requirements:**

NA

**Container Cleaning and Disposal:**

NA

**Section 14 - Transport Information****DOT Transportation Data (49CFR 172.101)**

|                                |                                  |   |
|--------------------------------|----------------------------------|---|
| <b>Shipping Name:</b><br>NA    | <b>Label:</b><br>NA              | <b>Passenger Air and Railcar:</b><br>NA |
| <b>Shipping Symbols:</b><br>NA | <b>Special Provisions:</b><br>NA | <b>Cargo Aircraft:</b><br>NA            |
| <b>Hazard Class:</b><br>NA     | <b>Exceptions:</b><br>NA         | <b>Oceangoing Vessel Stowage:</b><br>NA |
| <b>ID Number:</b><br>NA        | <b>Non-bulk Packaging:</b><br>NA | <b>Other:</b><br>NA                     |
| <b>Packing Group:</b><br>NA    | <b>Bulk Packaging:</b><br>NA     |   |

**EXPLANATION of APPLICATION TRANSPORTATION CRITERIA:**

NA

**Section 15 - Regulatory Information**

Checked box(es) indicate that the chemical is subject to the associated regulatory requirements and/or appears on the associated chemical inventory list

| <b>Chemical Component:</b> |                          |                           | <b>CAS #</b>             | <b>Proprietary</b>            |                                     |
|----------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------------|
| 40 CFR 261.33              | <input type="checkbox"/> | CAA 40 CFR 112            | <input type="checkbox"/> | TSCA inventory (US)           | <input checked="" type="checkbox"/> |
| 40 CFR 261 classified      | <input type="checkbox"/> | SARA 40 CFR 311 and 312   | <input type="checkbox"/> | AICS inventory (Australia)    | <input checked="" type="checkbox"/> |
| RCRA Section 3001          | <input type="checkbox"/> | SARA 40 CFR 372.65        | <input type="checkbox"/> | EINECS inventory (Europe)     | <input checked="" type="checkbox"/> |
| CERCLA RQ established      | <input type="checkbox"/> | SARA 40 CFR 355           | <input type="checkbox"/> | DSL inventory (Canada)        | <input checked="" type="checkbox"/> |
| 40 CFR 302.4               | <input type="checkbox"/> | OSHA 1910 1000 Z-1 tables | <input type="checkbox"/> | ECL inventory (Korea)         | <input checked="" type="checkbox"/> |
| CWA 40 CFR 311( b)(4)      | <input type="checkbox"/> | OSHA 1910 subpart Z       | <input type="checkbox"/> | ENCS inventory (Japan)        | <input checked="" type="checkbox"/> |
| CWA 40 CFR 307(a)          | <input type="checkbox"/> |                           |                          | PICCS inventory (Phillipines) | <input checked="" type="checkbox"/> |
|                            |                          |                           |                          | CHINA inventory               | <input checked="" type="checkbox"/> |

  

| <b>Chemical Component:</b> |                          |                           | <b>CAS #</b>             | <b>Proprietary</b>            |                                     |
|----------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------------|
| 40 CFR 261.33              | <input type="checkbox"/> | CAA 40 CFR 112            | <input type="checkbox"/> | TSCA inventory (US)           | <input checked="" type="checkbox"/> |
| 40 CFR 261 classified      | <input type="checkbox"/> | SARA 40 CFR 311 and 312   | <input type="checkbox"/> | AICS inventory (Australia)    | <input checked="" type="checkbox"/> |
| RCRA Section 3001          | <input type="checkbox"/> | SARA 40 CFR 372.65        | <input type="checkbox"/> | EINECS inventory (Europe)     | <input checked="" type="checkbox"/> |
| CERCLA RQ established      | <input type="checkbox"/> | SARA 40 CFR 355           | <input type="checkbox"/> | DSL inventory (Canada)        | <input checked="" type="checkbox"/> |
| 40 CFR 302.4               | <input type="checkbox"/> | OSHA 1910 1000 Z-1 tables | <input type="checkbox"/> | ECL inventory (Korea)         | <input checked="" type="checkbox"/> |
| CWA 40 CFR 311( b)(4)      | <input type="checkbox"/> | OSHA 1910 subpart Z       | <input type="checkbox"/> | ENCS inventory (Japan)        | <input checked="" type="checkbox"/> |
| CWA 40 CFR 307(a)          | <input type="checkbox"/> |                           |                          | PICCS inventory (Phillipines) | <input checked="" type="checkbox"/> |
|                            |                          |                           |                          | CHINA inventory               | <input checked="" type="checkbox"/> |

|                            |                            |                           |                          |   |
|----------------------------|----------------------------|---------------------------|--------------------------|---|
| <b>Chemical Component:</b> | Styrene Acrylate Copolymer | <b>CAS #</b>              | Proprietary              |   |
| 40 CFR 261.33              | <input type="checkbox"/>   | CAA 40 CFR 112            | <input type="checkbox"/> | TSCA inventory (US) <input checked="" type="checkbox"/>           |
| 40 CFR 261 classified      | <input type="checkbox"/>   | SARA 40 CFR 311 and 312   | <input type="checkbox"/> | AICS inventory (Australia) <input checked="" type="checkbox"/>    |
| RCRA Section 3001          | <input type="checkbox"/>   | SARA 40 CFR 372.65        | <input type="checkbox"/> | EINECS inventory (Europe) <input checked="" type="checkbox"/>     |
| CERCLA RQ established      | <input type="checkbox"/>   | SARA 40 CFR 355           | <input type="checkbox"/> | DSL inventory (Canada) <input checked="" type="checkbox"/>        |
| 40 CFR 302.4               | <input type="checkbox"/>   | OSHA 1910 1000 Z-1 tables | <input type="checkbox"/> | ECL inventory (Korea) <input checked="" type="checkbox"/>         |
| CWA 40 CFR 311(b)(4)       | <input type="checkbox"/>   | OSHA 1910 subpart Z       | <input type="checkbox"/> | ENCS inventory (Japan) <input checked="" type="checkbox"/>        |
| CWA 40 CFR 307(a)          | <input type="checkbox"/>   |                           |                          | PICCS inventory (Phillipines) <input checked="" type="checkbox"/> |
|                            |                            |                           |                          | CHINA inventory <input checked="" type="checkbox"/>               |

## Section 16 - Other Information

**Abbreviations:** ACGIH - American Conference of Governmental Industrial Hygienists

IDLH - Immediately Dangerous to Life and Health

NA - Not Applicable to the criteria OR Not Available

ND- Not Determined OR Not Known

NE - None established

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation Recovery Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

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**Additional Comments** NA

**Revision Notes:** ACB

<<<<< **END OF MSDS**>>>>>