# MATERIAL SAFETY DATA SHEET

## 1.IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

**PART NO** **HP2600CHEMK75**
**PRODUCT DESCRIPTION** **CHEM MKI BTL HP2600/2605/1600 BLACK 75 gm**

**SUPPLIER** Future Graphics
1175 Aviation Place
San Fernando, CA 91340
TEL 818 / 837-8100

**EMERGENCY TELEPHONE** Future Graphics Imaging Corporation 818 / 837-8100, 800 / 394-9900

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS No. | Proportion | OSHA PEL | ACGIH TLV | OTHER LIMITS |
|---|---|---|---|---|---|
| Styrene-acrylic ester type copolymer | Proprietary | 70-90% | Not listed | Not listed | Not available |
| Wax | Proprietary | 5-15% | Not listed | Not listed | Not available |
| Carbon black | 1333-86-4 | 3-10% | 3.5mg/m3 | 3.5mg/m3 | Not available |
| Silica | 7631-86-9 | 1-7 | Not listed | 10mg/m3 | Not available |

[Further information]
Above ingredients of this product are registered in TSCA Inventory.

## 3.HAZARDS IDENTIFICATION

[Potential Health Effects]

**Ingestion Effects:** Ingestion is not applicable route of entry for intended use.
**Inhalation Effects:** Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.
**Eye Effects:** Solid or dust may cause irritation or scratch the surface of eye.
**Skin Effects:** Unlikely to cause skin irritation.

**[Environmental Hazards]**
**No particular hazards known.**

## 4.FIRST-AID MEASURES

**Ingestion:** Dilute stomach contents with several glasses of water. Get medical attention if symptoms persist.
**Inhalation:** Move person to fresh air immediately. If symptoms occur, consult a physician
**Eye Contact:** Immediately flush with large amount of clean water for at least 15 minutes
If irritation persist, consult a physician.
**Skin irritation:** Wash affected areas thoroughly with soap and water. If irritation persist, consult a physician.

## 5.FIRE-FIGHTING MEASURES

**Extinguishing Media:** Water, foam,dry chemical
**Special Fire-fighting Procedure:** Keep personnel removed form and upwind of fire. Wear

respiratory protection. Cool container with water spray.

**Unusual Fire & Explosion Hazards:** Toner material, like most organic material in powder form, is capable of creating a dust explosion.

## 6.ACCIDENTAL RELEASE MEASURES

**Spill and leakage Procedure:**

Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. Dispose of waste toner in accordance with local requirements.

**Environmental precautions:**

Do not discharge into drains.

## 7.HANDLING & STORAGE

**Advise on safe handling and protection against fire:**

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.

**Requirements for storage rooms and advice on compatibility:**

**Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.**

## 8.EXPOSURE CONTROL/PERSONAL PROTECTION

**Occupational Exposure Limits For Toner:**

**ACGIH TLV:** Particulates (Insoluble) Not otherwise Specified
10mg/m3 (Inhalable Particulate)
3mg/m3 (Respirable Particulate)

**Respirable Protection:** Dust respiratory mask
**Ventilation:** Good general ventilation should be sufficient under intended use.
**Protective Gloves:** Use leather gloves for hand protection.
**Eye Protection:** Protecting glasses
**Other Protective Equipment:** Not required under intended use.

## 9.PHYSICAL & CHEMICAL PROPERTIES

**Appearance and odor:** Fine powder, black, slight plastic odor.
**Density:** About 1.2g/cm3
**Boiling Point:** Not applicable
**Melting Point:** Not applicable
**Solubility in Water:** Negligible
**Solubility in Other Solvent:** Partially soluble in toluene and THF
**Percent Volatile by Volume:** Not applicable
**Flammable Limits:** Not applicable
**Flash Point:** Not applicable
**Log Po/w:** Not applicable
**Explosibility:** No data available. According to Annex 1 to Directive 67/548/EEC

The composition materials of this product are not classified as explosive. *2

**Flammability:** No data available. According to Annex 1 to Directive 67/548/EEC, the composition materials of this product are not classified as flammable. *2

## 10.STABILITY & REACTIVITY

**Stability & reactivity:** Stable. Hazardous polymerization will not occur.

**Materials to Avoid:** None

**Hazardous Decomposition Products:** Combustion will produce carbon dioxide and, possibly Toxic chemicals such as carbon monoxide.

## 11.TOXICOLOGICAL INFORMATION

**Acute Effects**

**Oral:**

The similar toner showed: LD50 > 5000mg/kg (rat). *1

Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "very toxic", "toxic" and "harmful" when swallowed. *2

**Dermal:**

No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "very toxic", "toxic" and "harmful" when absorbed via the skin. *2

**Inhalation:**

No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "very toxic", "toxic" and "harmful" when inhaled. *2

**Eye Contact:**

Based on the Kay and Calandra criteria, the similar toner is considered to be a nonirritant to the Ocular tissue of the rabbit. Based on the EEC labeling criteria, the similar toner is classified as a Nonirritant. *1

Based on the EC labeling criteria any components in this product are not classified as the Dangerous categories of “irritant” when contacted with the ocular tissue. *2

**Skin Contact:**

According to EPA criteria, the similar toner is considered to be a nonirritant to the skin of the rabbit. Based on the EEC evaluation criteria, the similar toner is classified as nonirritant to the skin of the rabbit. *1

Based on the EC labeling criteria any components in this product are not classified as the dangerous Categories of “irritant” when contacted with the skin. *2.

**Sensitization:**

No test data available. According to Annex 1 to Directive 67/548/EEC, the composition materials of this product are not classified as a sensitizer. *2

**Chronic Toxicity:**

**Oral:**

No test data available. Based on the EC labeling criteria, any components in this product are not required a risk phrase R48 (danger for serious damage to health by prolonged exposure). *2

**Dermal:**

No test data available. Based on the EC labeling criteria, any components in this product are not required a risk phrase R48 (danger for serious damage to health by prolonged exposure). *2

**Inhalation:**

No test data available.

In a study in rats of 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 *(16mgtm3)* exposure group. And a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle *(4mg/*m3) exposure group. But no pulmonary change was reported in the lowest (1 *mg/*m3) exposure group, the most relevant level to potential human exposures.

Based on the EC labeling criteria, any components in this product are not required a risk phrase R48 (danger for serious damage to health by prolonged exposure). *2

**Mutagenicity:**

The similar toner did not cause a positive response in either the presence or absence of Aroclor-induced rat liver S9. *1

Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "mutagenic" if they are inhaled or ingested or if they penetrate the skin. *2

**Carcinogenicity:**

No data available. In 1996 the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals for which there are inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats. The composition materials of this product are not a known or suspected carcinogen according to any IARC Monograph, EU Directive, or OSHA regulations (USA). *2

**Reproductive Toxicity:**

No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous category of "toxic for reproduction". *2

## 12.ECOLOGICAL INFORMATION

**Avoid spills and dispose of in accordance with applicable laws and regulations**

**Aquatic Environment:**

No test data available. According to Annex 1 to Directive 67/548/EEC, the composition Materials of this product are not classified as dangerous for the environment. *2

## 13.DISPOSAL CONSIDERATION

**[Waste From This Product]**

Waste material may be dumped or incinerated on condition that meets all country, state and local environmental regulations.

Recommendation: Consult with the disposal agency and the relevant authorities:
Cleansing agent is water.

## 14.TRANSPORT INFORMATION

**[International Transport Information]**

**UN Number:** None

**Hazards Class:** None

## 15.REGULATORY INFORMATION

**Label Information According to the DIRECTIVE 1999/45/EC (EU):** None

**Please refer to any other national measures that may be relevant.**

## 16.OTHER INFORMATION

**[MSDS STATUS]**

**References**

***1: In house data**

***2: Commision Directive 2001/59/EC of 6 August 2001 adapting to technical progress for the 28th time Council Directive 67/548/EEC on the approximation of the laws, regualations and administrative provisions relating to the classification, packaging and labeling of dangerous substance**

- **IARC Monographs volumes 1-79**
- **EPA, Proposed Guidelines for Carcinogen Risk Assesment (1986)**