

## MATERIAL SAFETY DATA SHEET

Date: November 25, 2005

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Toner Kit for UTAX LP 3030/3035/3045  
 Supplier:  
 Name: UTAX GmbH  
 Address: Ohechaussee 235, 22848 Norderstedt, Germany  
 Telephone number: +49 (0) 40 / 528490

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name (Common name)	%
Styrene acrylate copolymer 1	50 – 60
Styrene acrylate copolymer 2	1 – 5
Magnetite	30 – 40
Silica (CAS No. 7631-86-9)	1 - 5
Titanium Oxide (CAS No. 13463-67-7)	1 - 5

### 3. HAZARDS IDENTIFICATION

Most important hazards: None  
 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.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media: Water (Sprinkle with water), foam, powder, CO<sub>2</sub> 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.

### 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 blow away and to wipe up with a wet cloth.

## 7. HANDLING AND STORAGE

Handling: Never open the toner container.  
 Storage: Keep toner container tightly closed and store in a cool, dry and dark place keeping away from fire.  
 Keep away from children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH-TLV (2000): Silica 10 mg/m<sup>3</sup>, Titanium oxide 10 mg/m<sup>3</sup>, Total dust 10 mg/m<sup>3</sup>  
 OSHA-PEL (1993): Silica 5 mg/m<sup>3</sup>, Titanium oxide 15 mg/m<sup>3</sup>, Total dust 15 mg/m<sup>3</sup>  
 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid  
 Form: Fine powder  
 Colour: Black  
 Odor: Odorless  
 pH: N.A.  
 Melting point: 140 °C  
 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: 0.8 (Bulk density)  
 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: (rat) LD<sub>50</sub>>2,500 mg/kg  
 (Estimated from other products containing same materials.)  
 Acute dermal toxicity: (rat) LD<sub>50</sub>>2,000 mg/kg  
 (Estimated from other products containing same materials.)  
 Acute inhalation toxicity: (rat) LC<sub>50</sub>(4hr)>5.13 mg/l  
 (Estimated from other products containing same materials.)  
 Acute eye irritation: (rabbit) Mild irritant  
 (Estimated from other products containing same materials.)  
 Acute skin irritation: (rabbit) Non-irritant  
 (Estimated from other products containing same materials.)  
 Skin sensitisation: (mouse) Non-sensitiser  
 (Estimated from other products containing same materials.)  
 Mutagenicity: AMES Test is negative  
 Reproductive toxicity: No reproductive toxicant, according to MAK, California Proposition 65, TRGS 905 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 rats in the high concentration (16 mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4 mg/m<sup>3</sup>) exposure group. But no pulmonary change was reported in the lowest (1 mg/m<sup>3</sup>) exposure group, the most relevant 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

All components in this product comply with order under 67/548/EEC.

**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  
EPA: Environmental Protections Agency (USA)  
IARC : International Agency for Research on Cancer  
JAIH: Japan Association on Industrial Health  
MAK: Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
TRGS: Technische Regeln für Gefahrenstoffe (Deutsche)  
TSCA: Toxic Substances Control Act (USA)