

MATERIAL SAFETY DATA SHEET

Date: January 12, 2006

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Toner Kit for UTAX CD 1316 / LP 3118
 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	50 – 60
Carbon black (CAS No. 1333-86-4)	< 1
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, 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.

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 ³ , Titanium oxid 10 mg/m ³ , Carbon Black 3.5 mg/m ³ , Total dust 10 mg/m ³
OSHA-PEL (1993):	Silica 5 mg/m ³ , Titanium oxid 15 mg/m ³ , Carbon Black 3.5 mg/m ³ , Total dust 15 mg/m ³
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:	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
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 (except Carbon black), 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.

In 1996, the IARC re-evaluated carbon black as a Group2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rat receiving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an 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.

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/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4 mg/m³) exposure group. But no pulmonary change was reported in the lowest (1 mg/m³) 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)