

## Safety Data Sheet

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: T-FC34U-C  
e-STUDIO407CS Series  
SDS NO. TFC34UC-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Toner for electrophotographic equipment

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer Toshiba TEC Corporation  
Address: Gate City Ohsaki West Tower 1-11-1,Osaki,Shinagawa-ku,Tokyo,141-8562,Japan  
Telephone number: +81-3-6830-9100  
Supplier

Toshiba America Business Solutions,Inc.

Emergency Telephone.No. +1-800-424-9300(CHEMTREC)

For calls within the U.S.only.

+1 703-527-3887(collect calls accepted) (CHEMTREC)

Outside USA and Canada

Toshiba of Canada Limited

Telephone No.+1-905-470-3500

For calls within Canada only.

### 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

##### HEALTH HAZARDS

Acute toxicity Oral: Out of class

Skin corrosion/irritation: Out of class

Skin sensitization: Out of class

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

### 3. Composition/information on ingredients

Substance/Mixture:

#### 3.2 Mixture

Ingredient name	Content(%)	CAS No.
Polyester resin	-----	-----
Pigment	-----	-----
Wax(1)	-----	-----
Wax(2)	-----	-----
Surface Additive	-----	68611-44-9

----- TRADE SECRET

---

**4. First-aid measures****4.1 Descriptions of first-aid measures****Inhalation**

Remove from exposure area to fresh air immediately.

Contact a physician if there is any difficulty in breathing or other signs of distress.

**Skin Contact**

Wash with soap and water.

If irritation occurs or is persistent, seek medical attention.

**Eye Contact**

Immediately flush eyes with plenty of water for at least 15 minutes.

If irritation persists, call a physician.

**Ingestion**

Dilute stomach contents with several glasses of water.

---

**5. Fire-fighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Foam, carbon dioxide, dry chemical, water fog

**Unsuitable extinguishing media**

None

**5.2 Special Hazards**

Can form explosive dust-air mixtures when finely dispersed in air.

**5.3 Advice for firefighters**

Special protective equipment and precautions for fire-fighters

Wear cold insulating gloves/face shield/eye protection.

---

**6. Accidental release measures****6.1 Personnel precautions, protective equipment and emergency procedures**

Wear proper protective equipment.

Avoid breathing dust.

**6.2 Environmental precautions**

Do not wash away into shower or waterway.

**6.3 Methods and materials for containment and cleaning up**

Sweep slowly spilled toner/developer and carefully transfer into a waste container.

---

**7. Handling and storage****7.1 Precautions for safe handling****Preventive measures**

Do not breathe dust.

**Exhaust/ventilator**

No special ventilation equipment is needed under intended use.

**7.2 Conditions for safe storage, including any incompatibilities****Recommendation for storage**

Store in a dry place.

Keep out of the reach of children.

**7.3 Specific end use(s)**

Toner for electrophotographic equipment

---

**8. Exposure controls/personal protection****8.1 Control parameters**

## ACGIH

(as the product)

TWA 15mg/m<sup>3</sup>(Total dust)5mg/m<sup>3</sup>(Respirable fraction)

## DMG-MAK

(as the product)

4mg/m<sup>3</sup>(Inhalable fraction)1.5mg/m<sup>3</sup>(Respirable fraction)**8.2 Exposure controls**

Individual protection measures

Respiratory protection

Not required under intended use.

Hand protection

Not required under intended use.

Eye protection

Not required under intended use.

Skin and body protection

Not required under intended use.

---

**9. Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

## Physical properties

Appearance: Powder/granule

Color: Cyan

Odor: None

## Solubility

Solubility in water: Insoluble

**9.2 Other information**

## Explosive Properties

Little possibility in intended use.

According to Explosive Evaluation, can form explosive dust-air mixtures when finely dispersed in air, like most finely grained organic powder.

---

**10. Stability and Reactivity****10.2 Chemical stability**

Stable.

**10.3 Possibility of hazardous reactions**

None

**10.5 Incompatible materials**

None

**10.6 Hazardous decomposition products**

None

---

**11. Toxicological Information****11.1 Information on toxicological effects**

## Acute toxicity

Acute toxicity (Oral), Product

LD50 &gt; 2,000mg/kg

(This was the highest attainable mass.)

## Irritant properties

Skin corrosion/irritation

Non-irritant.

## Skin sensitization

Non-sensitizer  
Germ cell mutagenicity  
Ames test :Negative  
No Carcinogenic effects data available  
No reproductive toxicity data available  
Delayed and immediate effects and also chronic effects from short- and long-term exposure  
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 the 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 animals in the middle (4mg/m<sup>3</sup>) exposure group. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust retained in the lungs for a prolonged period.  
No Aspiration hazard data available

---

**12. Ecological Information**

No Aquatic toxicity data available  
No Persistence and degradability data available  
No Bioaccumulative potential data available  
No Mobility in soil data available  
Ozone depleting chemical data not available

---

**13. Disposal considerations**

13.1 Waste treatment methods  
Dispose of in accordance with local, state and federal regulations.  
Empty plastic container may be recycled.

---

**14. Transport Information**

UN No, UN CLASS  
Not applicable to UN NO.  
Land DOT 49 CFR,ADR :Not classified as Dangerous Goods  
Sea IMDG Code :Not classified as Dangerous Goods  
Air ICAO-TI :Not classified as Dangerous Goods

---

**15. Regulatory Information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US/Canada Information  
Toxic Substance Control Act (TSCA)  
All chemical substances in this product comply with all applicable rules or orders under TSCA.  
California Proposition 65  
Not regulated.  
OSHA Hazard Communication Standard,29CFR 1910.1200  
Not regulated.  
RCRA(40 CFR 261)  
Product or components not listed.  
CERCLA/SARA Information  
Not regulated.  
NTP Annual Report on Carcinogens  
Not listed as an NTP carcinogen.  
  
Controlled Products Regulations(Canada)  
This product has been classified in accordance with the hazard criteria of the CPR.  
Workplace Hazardous Materials Information System (Canada)

No toxicology information available.

#### EU Information

Regulation(EC)No.1907/2006(REACH)

All chemical substances in this product comply with all applicable rules or order under 1907/2006.

#### Australian Information

Not classified as hazardous according to criteria of NOHSC

The substance is being imported or manufactured under a permit granted under section 21U of the Industrial Chemicals (Notification and Assessment)Act 1989

---

## 16. Other information

### Reference Book

Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit., 2013 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2014 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats

H.Muhle et.al; Fundamental and Applied Toxicology 17.280-299(1991)

Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats

B.Bellmann; Fundamental and Applied Toxicology 17.300-313(1991)

### Definitions and Abbreviations

OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health Administration (USA)

ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA)

DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft

TWA stands for Time Weighted Average

IARC stands for International Agency for Research on Cancer

NTP stands for National Toxicology Program (USA)

DOT stands for Department of Transportation (USA)

NOHSC stands for National Occupational Health and Safety Commission (Australia)

ADG stands for Australian Dangerous Goods

### Restrictions

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.