

Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Toner Cartridge PTC A410K1-22
Product Code: PTC
Relevant identified uses: For electrophotographic apparatus
Supplier: IMEX Co., Ltd.
Address: 1630-8 Mitsutakazu, Kita-ku, Okayama-Shi, Okayama 709-2124, Japan
Telephone number: +81-86-724-4402 FAX number: +81-86-724-2077
E-mail address: msds@imex-net.co.jp

SECTION 2 HAZARDS IDENTIFICATION

2.1 Emergency Overview:

Black fine powder with little or no odor.

Risk of dust-explosion if finely dispersed in air with an ignition source.

2.2 OSHA Regulatory Status:

Classification under GHS: Not classified

GHS Label Elements: None

2.3 Potential Health Effects:

No significant hazards known. See SECTION 11 for details

2.4 Potential Environmental Effects:

No significant hazards known. See SECTION 12 for details

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Identification of Substance/Mixture: Mixture

Ingredient Name	Weight %	CAS No.
Saturated polyester resin 1	40-60	Confidential
Saturated polyester resin 2	30-50	Confidential
Carbon black	1-10	1333-86-4
Wax	1-5	Confidential
Silica	1-5	Confidential
Organic salt	1-5	Confidential

SECTION 4 FIRST AID MEASURES**Inhalation:**

Move to fresh air and gargle with water.

If accompanied with breathing difficulty, take first aid measures such as artificial respiration and call a physician immediately.

Skin contact:

Wash with soap and water.

Eye contact:

Do not rub. Flush with large amount of water until particles are removed.

Seek medical advice

Ingestion:

Rinse mouth. Seek medical advice.

SECTION 5 FIREFIGHTING MEASURES**5.1 Suitable Extinguishing media:**

Water spray or fog, CO₂, dry chemicals

5.2 Unsuitable Extinguishing media:

Strong water current may cause powder to disperse and form explosive dust-air mixture.

5.3 Protection of firefighters

Specific hazards arising from the chemical:

Fine powder may form explosive dust-air mixture if finely dispersed in air.

Fume and smoke may include toxic substances such as aromatic compounds.

Protective equipment and precautions for firefighters

Wear gloves, glasses, a mask if necessary

SECTION 6 ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:**

Avoid breathing dust. Dust-proof masks should be worn when working.

6.2 Environmental precautions:

Do not flush into sewer or natural watercourse.

6.3 Methods for containment:

Keep in air-tight container.

6.4 Methods for cleaning up:

Fine powder may form explosive dust-air. Confirm there is no source of fire and if there is a source, remove it. Sweep up spilled powder slowly and clean remainder with wet cloth. If a vacuum cleaner is used, a dust explosion-proof type must be chosen.

SECTION 7 HANDLING AND STORAGE**7.1 Precautions for safe handling:**

Avoid breathing dust.

Keep away from ignition sources, especially where dust concentration may become high.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Store in dry, well-ventilated area, to maintain quality the temperature should not exceed 35degrees centigrade for a long time. Avoid direct sunlight.

SECTION 8 Exposure controls/personal protection**8.1 Control parameters:**

	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
As toner mixture	15mg/m ³ (Inhalable fraction) 5mg/m ³ (Respirable fraction)	N.E.	10mg/m ³ (Total dust) 3mg/m ³ (Respirable fraction)	N.E.
Carbon black	3.5mg/m ³	N.E.	3.5mg/m ³	N.E.
Silica	6mg/m ³	N.E.	10mg/m ³ (Total dust) 3mg/m ³ (Respirable fraction)	N.E.

(N.E.= Not Established)

8.2 Engineering controls:

Use of local ventilation is recommended.

8.3 Personal protective equipment:

Eye/face protection: Protective goggles is recommended if necessary.
 Skin Protection: Wear chemical-resistant apron or other impervious clothing.
 Respiratory protection: Dust-proof mask should be used when handling bulk.

SECTION 9 Physical and chemical properties**9.1 Information on basic physical and chemical properties:**

Appearance: Yellow powder
 Odor: Slightly plastic odor
 pH: Not applicable
 Melting point: App. 110°C (Flow temperature)
 Boiling point: Not applicable
 Flash point: Not applicable
 Evaporation rate: Not applicable
 Flammability: Not flammable
 Explosive limits: Not available
 Vapour pressure: Not applicable
 Vapour density: Not applicable
 Relative density: App. 1.2
 Solubility: Insoluble to water, partially soluble to Chloroform.
 Partition coefficient: Not available
 Auto-ignition temperature: Not available
 Decomposition temperature: Not available
 Viscosity: Not applicable
 Particle Size: app. 6.0µm (D₅₀)

9.2 Other information: None**SECTION 10 Stability and reactivity**

10.1 Reactivity: None
10.2 Possibility of hazardous reactions: None
10.3 Chemical stability: Stable
10.4 Conditions to avoid: None
10.5 Incompatible materials: None
10.6 Hazardous decomposition products: No data

SECTION 11 Toxicological information**11.1 Information on toxicological effects:**

Acute toxicity:	Not Classified Oral; LD50 (Rat) >5,000 mg/kg* Dermal and Inhalation; Not available
Skin corrosion/irritation:	Not Classified (Rabbit) <1.0 *
Serious eye damage/irritation:	Not available (Ingredients are not classified as dangerous to EC No. 1272/2008)
Skin sensitization:	Not Classified (Marmot) 0% *
Germ cell mutagenicity:	Negative (Ames test)
Carcinogenicity:	Not available Carbon black contained in this product are classified to Group 2B of IARC as the result of inhalation test in use of rat. But oral/skin test does not show carcinogenicity. The toner containing carbon black did not show carcinogenicity in chronic inhalation exposure test in use of rat.
Reproductive toxicity:	Not available, No constituent components are classified
STOT –single exposure:	Not available, No constituent components are classified
STOT –RE:	Not available
Aspiration hazards:	Not available, No constituent components are classified

**data from toner with similar composition*

SECTION 12 Ecological information**12.1 Ecotoxicity**

Not Classified
Acute toxicity (Fish); Not classified as toxic (EC No. 1272/2008) (Daphnia); Not classified as toxic (EC No. 1272/2008)
Algae Inhibition; Not classified as toxic (EC No. 1272/2008)

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Other adverse effects:

Not available

**data from toner with similar composition*

SECTION 13 Disposal consideration

Dispose of waste and residues in accordance with local authority requirements.

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Confirm disposal procedures with local regulations.

Do not throw the toner cartridge of toner into an open flame. Hot toner may scatter and cause burns or other damage.

SECTION 14 Transport information**Basic shipping description**

UN number: None

UN proper shipping name: None

Transport hazard class(es): None

Packing group: None

Environmental hazards:

Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.

Additional information:

Handling such as exposure to water, rolling, falling, or giving shock to the container may result in breakage of the inner bag and result in scattering of the mixture.

Avoid direct sunlight and hot places. (See also: Section 7)

ADR / RID / ADN: not regulated

IMDG Code: not regulated

ICAO-TI / IATA-DGR: not regulated

SECTION 15 Regulatory information**Federal Regulations**

TSCA: All ingredients are on the inventory or exempt from listing.

SARA Title III Section 313:

None

State Regulations:

California Proposition 65:

Substances "Carbon black" and "Silica" included in this toner are listed, but only airborne, unbound particles of respirable size are subject to the regulation. Thus, their substances bound inside toner are not subject to the Proposition.

SECTION 16 Other information

Issued according to GHS 8th revised edition and ANSI Z400.1/Z129.1-2010

Indication of changes:

Dec. 9, 2021: Revised some contents

Oct. 31, 2019: First issued

Abbreviations:

CAS: Chemical Abstract Service

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ACGIH: American Conference of Governmental Industrial Hygienists

TLV: Threshold Limit Value

TWA: Time weighted Average

STEL: Short Term Exposure Limit

LC₅₀ Lethal Concentration to 50% of test populationLD₅₀ Lethal Dose to 50% of test populationD₅₀ volume-based median (50%) Diameter

IARC: International Agency for Research on Cancer

STOT: Specific Target Organ Toxicity

STOT RE Specific Target Organ Toxicity –Repeated Exposure

WAF Water Accommodated Fraction

EC ₅₀	Effective Concentration to 50% of test population
NOEC	No Observed Effect Concentration
E _r L ₅₀	Effective Loading rate that causes growth rate reduction to 50%
NOELR	No Observed Effect Loading Rate
E _b L ₅₀	Effective Loading rate that causes 50% reduction in algal cell biomass
PBT	Persistent, Bioaccumulative, and Toxic
UN	United Nations
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
ADN:	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG	International Maritime Dangerous Goods
IATA-DGR:	International Air Transport Association Dangerous Goods Regulations
ICAO-TI:	Technical Instructions for the Safe Transport of Dangerous Goods by Air
TSCA:	Toxic Substances Control Act
SNUR:	Significant New Use Rule
SARA:	Superfund Amendments and Reauthorization Act
ANSI:	American National Standard Institute

Although the information contained in this SDS is prepared to be accurate to the best of our knowledge, please be aware that health and hazard assessment may not be enough and complete.

Since SDS may be revised due to regulation changes or product modifications, please confirm if this is the latest version, especially if the revision date is outdated for two years.