Safety Data Sheet

SECTION 1 Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier:

Product Name: Toner Cartridge PTC A410Y2-22

Product Code: PTC

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

Relevant identified uses: For electrophotographic apparatus

Descriptor: Industrial uses (SU3), Ink and toners (PC18)

1.3. Details of the supplier of the safety data sheet:

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

1.4. Emergency telephone number: +81-86-724-4402 (8:30～17:00 JST)

SECTION 2 Hazards identification

2.1 Classification of the Substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]

Not classified as a hazardous mixture

Physical Hazards	
Flam. Sol:	Not classified
Health Hazards	
Acute Tox. -oral:	Not classified
Acute tox. -inhalation:	Not classified
Skin Corr/ Irrit:	Not classified
Eye Dam/ Irrit:	Not classified
Skin Sens:	Not classified
Muta:	Not classified
Environmental Hazards	
Aquatic Acute:	Not classified
Aquatic Chronic:	Not classified

All other Classifications not listed are either “Not applicable” or “Not available”

2.2 Label elements:

Labeling according to Regulation (EC) No 1272/2008 [CLP]

None

2.3 Other hazards:

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

SECTION 3 Composition/information on ingredients

3.2 Mixtures:

Ingredient Name	Weight %	CAS No.	REACH Registration	Classification according to Regulation(EC) No 1272/2008 [CLP]
Saturated polyester resin 1	40-60	Confidential	Registered*	None
Saturated polyester resin 2	30-50	Confidential	Registered*	None
Pigment	1-10	77804-81-0	Registered	None
Wax	1-5	Confidential	Registered*	None
Silica	1-5	Confidential	Registered	None
Organic salt	1-5	Confidential	Registered	None

**Registered as all applicable monomers*

SECTION 4 First aid measures

4.1 Description of first aid measures:

Immediate medical procedures: None

Inhalation: Remove from exposure into fresh air and rinse mouth with water. Seek medical advice.

Skin contact: Wash thoroughly with soapy water.

Eye contact: Flush with a large amount of water until particles are removed. Seek medical advice.

Ingestion: Drink several glasses of water to dilute ingested toner. Seek medical advice.

4.2 Most important symptoms, both acute and delayed:

Inhalation of excessive amounts of dust may cause physical irritation to respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed:

None

SECTION 5 Firefighting measures

5.1 Extinguishing media:

Water, CO_2, dry chemicals or foam

5.2 Special hazards arising from substance or mixture:

Can form explosive dust-air mixture if finely dispersed in air.

5.3 Advice for firefighters:

Wear gloves, glasses, a mask if necessary.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not breathe in dust.

6.2 Environmental precautions:

Do not flush into sewer or watercourse.

6.3 Methods and material for containment and cleaning up:

Fine powder may form explosive dust-air mixture. Confirm there is no source of fire and if there is a source, remove it. Sweep up spilled powder slowly and clean reminder 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:

Do not handle in areas where there is wind or draught, this may cause dust to get into eyes.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s):

Image formation in printing machines or copiers.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters:

As mixture: Dust, respirable

	Limit value –Eight hours		Limit value –Short term	
Country	ppm	mg/m^3	ppm	mg/m^3
European Union	**Not established**	**Not established**	**Not established**	**Not established**
Austria	-	5	-	10
Belgium	-	3	-	-
France	-	5 (respirable aerosol)	-	-
Germany (AGS)	-	1.25	-	-
Germany (DFG)	-	1.5	-	-
Hungary	-	6	-	-
Ireland	-	4	-	-
Spain	-	3	-	-
Sweden	-	5	-	-
Switzerland	-	3	-	-
USA (ACGIH)	-	3	-	-
USA (OSHA PEL)	-	5	-	-

Applicable control parameters are not established in other Community Members not listed

Constituent substances:

This mixture is considered as a “Special Mixture” where substances are modulated by their inclusion within the matrix of the mixture; thus, control parameters for constituent substances do not apply in use of this mixture.

8.2 Exposure controls:

Appropriate engineering controls:

Use of local ventilation is recommended.

Individual protection measures:

Eye protection:	Put on goggles if necessary.
Skin Protection:	Wear chemical-resistant apron or other impervious clothing if necessary.
Hand protection:	Use vinyl or rubber gloves if necessary.
Respiratory protection:	None required in normal use. If the limit of exposure concentration is exceeded, use authorized respirator.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Yellow powder (average particle size: app. 6.0 microns)
Odour:	Slight plastic odour
pH:	Not applicable

Melting point:	App. 110°C (softening point)
Boiling point:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability:	Not flammable
Explosive limits:	This product is considered a non-explosive material under normal use.
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	App. 1.2
Solubility:	Slightly soluble water and chloroform
Partition coefficient:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not applicable

9.2 Other information: None

SECTION 10 Stability and reactivity

10.1 Reactivity: None

10.2 Chemical stability: Stable

10.3 Possibility of hazardous reactions: Dust explosion, like most finely grained organic powders.

10.4 Conditions to avoid: Not applicable in normal use.

10.5 Incompatible materials: No data

10.6 Hazardous decomposition products: Decomposition will not occur under intended uses.

SECTION 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: Not available

Inhalation: Oral: >5,000 mg/kg (Rat)*

Dermal: Not available

Skin corrosion/irritation: <1.0 (Rabbit)*

Serious eye damage/irritation: Not available

(Ingredients are not classified as dangerous according to EC No. 1272/2008)

Skin sensitization: 0% (Marmot)*

Germ cell mutagenicity: Ames test Negative

Carcinogenicity: This product does not contain the carcinogenic substances which are listed on NTP, IARC and OSHA.

Reproductive toxicity: Does not contain substances listed as hazardous to reproductive health.

STOT-single exposure: Not available

STOT-repeated exposure: Not available

Aspiration hazards: Not available

**Based on other product test results of similar ingredients*

SECTION 12 Ecological information

12.1 Toxicity

Not classified

Acute toxicity for Fish (LC50):	Not classified as toxic (EC No. 1272/2008). Mg/l/96hr
Acute toxicity for Daphnia (EC50):	Not classified as toxic (EC No. 1272/2008). Mg/l/96hr
Algae Inhibition Test (IC50):	Not classified as toxic (EC No. 1272/2008). Mg/l/96hr

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not data are available on any adverse effects on the environment.

12.5 Results of PBT and vPvB assessment:

This mixture does not contain any substance that are assessed to be PBT or vPvB.

12.6 Other adverse effects:

Not available

SECTION 13 Disposal consideration

13.1 Waste treatment methods

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 or toner into an open flame. Hot toner may scatter and cause burns or other damage.

SECTION 14 Transport information

14.1 UN number

None

14.2 UN proper shipping name

None

14.3 Transport hazard class(es)

ADR / RID / ADN:	none
IMDG Code:	none
ICAO-TI / IATA-DGR:	none

14.4 Packing group

None

14.5 Environmental hazards:

Not classified as environmentally hazardous under UN Model Regulations.

Not classified as marine pollutant under IMDG Code.

14.6 Special precautions for user:

Avoid direct sunlight in quality.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

None

SECTION 15 Regulatory information

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

EU Regulations

Regulation (EC) No 1272/2008 [CLP]

Not classified as hazardous mixture, label not required

Regulation (EC) No 1907/2006 [REACH]

Restricted substances:	None
SVHC:	None*
Registration:	See SECTION 3

**Up to 25th updated list issued 8-July-2021*

National regulations (France):

French enforcement Decree no. 2012-232 of 17-February, 2012

None

15.2 Chemical safety assessment:

None

SECTION 16 Other information

Issued according to (EC) 453/2010 Annex II amendment of REACH Annex II

This SDS conforms to Regulation (EU) No.1907/2006 and 2015/830,

US OSHA Hazcom 2012 (29 CFR1910.1200), Canada WHMIS 2015 and the GHS.

Indication of changes:

9-Dec.-2021:	Revised some contents
1-Nov.-2019:	First issued

Abbreviations and acronyms:

FAX:	Facsimile
CLP:	Classification Labelling Packaging regulation
Flam. Sol.	Flammable Solid
Tox.	Toxicity
Corr.	Corrosivity
Irrit.	Irritation
Dam.	Damage
Sens.	Sensitization
Muta.	Mutagenicity
CAS:	Chemical Abstract Service
REACH:	Registration, Evaluation, Authorization, and Restriction of Chemicals
ppm:	parts per million (weight/weight)
AGS	Ausschuss für Gefahrstoffe
DFG	Deutsche Forschungsgemeinschaf
USA	United States of America
ACGIH:	American Conference of Governmental Industrial Hygienists
TWA:	Time weighted Average
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
app.	approximately
LC_{50}	Lethal Concentration to 50% of test population
LD_{50}	Lethal Dose to 50% of test population
IARC:	International Agency for Research on Cancer
NTP:	National Toxicology Program
NIOSH:	National Institute of Occupational Safety and Health
PAH:	Polycyclic Aromatic Hydrocarbons
STOT-SE:	Specific Target Organ Toxicity –Single Exposure
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_rL_{50}	Effective Loading rate that causes growth rate reduction to 50%
NOELR	No Observed Effect Loading Rate
E_bL_{50}	Effective Loading rate that causes 50% reduction in algal cell biomass
PBT	Persistent, Bioaccumulative, and Toxic
vPvB:	very Persistent and very Bioaccumulative
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
SVHC:	Substances of Very High Concern

Classification procedures:

Flam. Sol:	Classification data of constituent substances
Acute Tox. -oral:	Data from similar mixture and bridging principle “Dilution”
Acute tox. -inhalation:	Data from similar mixture and bridging principle “Dilution”
Skin Corr/ Irrit:	Data from similar mixture and bridging principle “Dilution”
Eye Dam/ Irrit:	Data from similar mixture and bridging principle “Dilution”
Skin Sens:	Data from similar mixture and bridging principle “Dilution”
Muta:	On basis of test data of this mixture
Aquatic Acute:	Classification data of constituent substances

Aquatic Chronic:	Classification data of constituent substances

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.