

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Canon Drum Unit for NP-1215 Copier
Product Code: 1316A / F43-1601
Manufacturer: Canon Inc.
 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan
Supplier: Canon Singapore Pte Ltd
 1 HarbourFront Avenue, #04-01, Keppel Bay Tower, Singapore 098632
 cspl_msds@canon.com.sg
Use of the Product: Drum for electrophotographic apparatus

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

< Ingredient(s) >

Chemical Name / Generic name	CAS # / EC #	Weight %	EU Symbol	R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Aluminum alloy	Confidential	95.0-98.0	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Titanium dioxide	13463-67-7/ 236-675-5	0.5-2.0	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Polycarbonate resin	Confidential	0.5-2.0	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Aryl amine derivative	Confidential	0.3-0.8	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

< Carcinogen >

Chemical Name	CAS #	Reference
No components of this drum is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulation or Annex I to Directive 67/548/EEC.		

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not applicable

Emergency Overview:

Brownish red aluminum cylinder. No odor.

Potential Health Effects and Symptoms:

Inhalation:

Not applicable

Ingestion:

Not applicable

Eye:

Not applicable

Skin:

May be non-irritant.

Chronic Effects:

Not identified

Medical Conditions Generally known to be Aggravated by Exposure:

Not identified

SECTION 4 FIRST AID MEASURES**First Aid Measures:****Inhalation:**

Not applicable

Ingestion:

Not applicable

Eye:

Not applicable

Skin:

Wash with soap and water. If irritation persists, obtain medical advice.

Note to Physicians:

None

SECTION 5 FIRE FIGHTING MEASURES**Fire Fighting Measures:****Extinguishing Media:**CO₂, dry chemicals, foam, water**Unsuitable Extinguishing Media:**

None

Special Fire Fighting Procedures:

None

Unusual Fire and Explosion Hazards:

None

Fire and Explosive Properties (See also Section 9):**Hazardous Combustion Products:**CO, CO₂, NO_x**Other Properties:**

None

SECTION 6 ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

Not applicable

Environmental Precautions:

Not applicable

Method for Cleaning Up:

Not applicable

SECTION 7 HANDLING AND STORAGE**Handling:**

None of safe handling advice.

Storage:

Keep at temperature not exceeding 45°C.

Specific Uses:

Drum for electrophotographic apparatus

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

None

Engineering Controls:

Not required

Personal Protection Equipment(s):

Respiratory Protection: Required
 Not Required

Eye/Face Protection: Required
 Not Required

Skin Protection: Required
 Not Required

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brownish red aluminum cylinder
Odor:	No odor
pH:	Not applicable
Boiling Point/Range(°C):	Not applicable
Melting Point/Range(°C):	>100
Decomposition Temperature(°C):	Not available
Flash Point(°C):	Not applicable
Flammable (Explosive) Limits:	Not applicable
Autoignition Temperature(°C):	Not applicable
Flammability:	Not flammable
Explosive Properties:	None
Oxidizing Properties:	None
Vapor Pressure:	Negligible
Vapor Density:	Not applicable
Density / Specific Gravity:	Not available
Water Solubility:	Not soluble
Fat Solubility:	Partially soluble in ketones, esters and aromatic solvents.
Partition Coefficient (n-Octanol/Water):	Not soluble in water and n-octanol.
Percent Volatile: (%)	Negligible
Evaporation Rate:	Not applicable
Viscosity (mPa s):	Not applicable

SECTION 10 STABILITY AND REACTIVITY

Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Conditions to Avoid:	None
Materials to Avoid:	None
Hazardous Decomposition Products:	CO, CO2, NOx
Hazardous Polymerization:	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur
Conditions to Avoid:	None

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Not available

Ingestion:

Not available

Eye:

Not available

Skin:

Not available

Sensitization:

Not available

Mutagenicity:

Coating layer: Ames Test (Salmonella typhimurium) : Negative

Reproductive Toxicity:

Not available

Carcinogenicity:

Not available

Others:

None

SECTION 12 ECOLOGICAL INFORMATION

Mobility:

Not available

Persistence / Degradability:

Not available

Bioaccumulation:

Not available

Ecotoxicity:

Not available

Other Adverse Effects:

Not available

SECTION 13 DISPOSAL CONSIDERATION

Method of Disposal:

Dispose under conditions which meet all federal, state or local regulations.

SECTION 14 TRANSPORT INFORMATION

UN #:

None

UN Shipping Name:

None

UN Classification:

None

UN Packing Group:

None

Marine Pollutant:

Yes

No

Chemical name (wt%):

Special Precautions:

None

SECTION 15 REGULATORY INFORMATION

< EU Information >

Information on the Label:

Symbol & Indication: Not applicable

R-Phrase:
Not applicable

S-Phrase:
Not applicable

Dangerous Component(s):
Not applicable

Special Precautions under 1999/45/EC Annex V:
Not applicable

Specific Provisions in Relation to Protection of Man or the Environment:

76/769/EEC: Not regulated

(EC)2037/2000: Not regulated

(EEC)2455/92: Not regulated

Others: None

< USA Information >

Information on the Label:

Signal Word: Not applicable

Hazard warning:
Not applicable

Safety Advice:
Not applicable

Hazardous Component(s):
Not applicable

SARA Title III §313:

Chemical Name	Weight %
Not applicable	

California Proposition 65:

Chemical Name	Weight %
None	

< Canada Information >

WHMIS Controlled product: Not applicable

< Australia Information >

Statement of Hazardous Nature: Not applicable

SECTION 16 OTHER INFORMATION

None

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EEC)2455/92
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

Abbreviations:

- "EU" stands for European Union.
- "OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration(USA).
- "ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
- "EU ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.
- "DFG MAK" stands for MAK(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).
- "OSHA HCS" stands for Occupational Safety and Health Act, Hazard Communication Standard(USA).
- "FHSA" stands for Federal Hazardous Substances Act(USA).
- "WHMIS" stands for Workplace Hazardous Materials Information System.
- "NOHSC" stands for National Occupational Health and Safety Commission Act 1985.

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date hereof. The company/matrix manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/matrix manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.
 NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.