Product Name: BLACK DRUM UNIT SP C352 (OPC) SDS Number: 408223



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02/10/2018

# Safety Data Sheet

## Section1: Chemical Product and Company Identification

(a) Product identifier used on the label

Product Name : BLACK DRUM UNIT SP C352 ( OPC )

(b) Other means of identification

SDS Number : 408223

(c) Recommended use of the chemical and restrictions on use

General Use : The image formation of printing machine or copier.

(d) Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company Name : Ricoh USA, Inc.

Department : Environmental Sustainability and Product Compliance

Address : 5 Dedrick Place West Caldwell, NJ 07006 USA

(e) Emergency phone number.

Telephone Number : 1-973-882-2000 or 1-973-882-5218 (For product information) or

1-800-336-6737 (for emergencies)

Telefax Number : 1-973-882-3959

E-mail : environmentinfo@ricoh-usa.com

Section2: Hazards Identification

### Classification

	EXPLOSIVES	Not Applicable
	FLAMMABLE GASES	Not Applicable
	FLAMMABLE AEROSOLS	Not Applicable
	OXIDIZING GASES	Not Applicable
	GASES UNDER PRESSURE	Not Applicable
	FLAMMABLE LIQUIDS	Not Applicable
	FLAMMABLE SOLIDS	Not Applicable
	SELF-REACTIVE SUBSTANCES AND	
	MIXTURES	Not Applicable
DUVCICAL HAZADDIC)	PYROPHORIC LIQUIDS	Not Applicable
PHYSICAL HAZARD(S)	PYROPHORIC SOLIDS	Not Applicable
	SELF-HEATING SUBSTANCES AND	Not Applicable
	MIXTURES	Not Applicable
	SUBSTANCES AND MIXTURES,	
	WHICH ON CONTACT WITH WATER,	Not Applicable
	EMIT FLAMMABLE GASES	
	OXIDIZING LIQUIDS	Not Applicable
	OXIDIZING SOLIDS	Not Applicable
	ORGANIC PEROXIDES	Not Applicable
	CORROSIVE TO METALS	Not Applicable
	ACUTE TOXICITY(ORAL)	Not Applicable
	ACUTE TOXICITY(DERMAL)	Not Applicable
	ACUTE TOXICITY	Not Applicable
	(INHALATION - GAS)	постирисаріе
	ACUTE TOXICITY	Not Applicable
	(INHALATION - VAPOUR)	тос Аррисавіе
	ACUTE TOXICITY	Not Applicable
	(INHALATION - DUST AND MIST)	Тостррисамс
	SKIN CORROSION/IRRITATION	Not Applicable
	SERIOUS EYE DAMAGE/EYE	Not Applicable
	IRRITATION	тостринский
HEALTH HAZARD(S)	RESPIRATORY SENSITIZER	Not Applicable
	SKIN SENSITIZER	Not Applicable

	•	•
	GERM CELL MUTAGENICITY	Not Applicable
	CARCINOGENICITY	Not Applicable
	TOXIC TO REPRODUCTION	Not Applicable
	TARGET ORGAN SYSTEMIC	
	TOXICITY FOLLOWING SINGLE	Not Applicable
	EXPOSURE	
	TARGET ORGAN SYSTEMIC	
	TOXICITY FOLLOWING REPEAT	Not Applicable
	EXPOSURE	
	ASPIRATION HAZARD	Not Applicable
	ACUTE HAZARDS TO	Not Applicable
ENVIRONMENTSL HAZARD(S)	THE AQUATIC ENVIRONMENT	Not Applicable
	CHRONIC HAZARDS TO	Not Applicable
וואבאהט(ט)	THE AQUATIC ENVIRONMENT	INOU APPRICABLE
	HAZARDOUS TO THE OZONE LAYER	Not Applicable

### Label element

Pictogram:	
Signal word(s):	Not applicable
Hazard statement(s):	Not applicable
Precautionary	Not applicable
statement(s)	
[Prevention]	
[Response]	Not applicable
[Storage]	Not applicable
[Disposal]	Not applicable

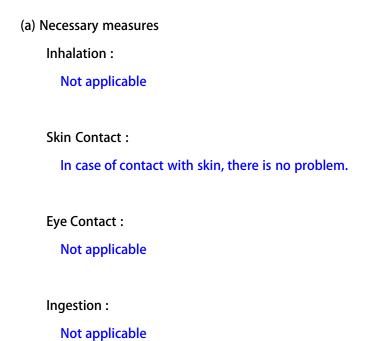
## **Specific Hazards**

There are no significant hazards expected with intended use.

# Section3: Composition, Information on Ingredients

Ingredients	Contents
CAS No./Chemical name	(%)
7429-90-5	>97
Al Substrate	
Confidential	<1
Charge Transport Material	
Confidential	<1
Organic Pigment	
Confidential	<1
Metal oxide	

### Section4: First Aid Measures



(b) Most important symptoms/effects, acute and delayed.

Not available

(c) Indication of immediate medical attention and special treatment needed.

)S:	S:BLACK DRUM UNIT SP C352 ( OPC )	
	Immediate edical Attention :	
	Immediate medical attention is not required.	
	Section5 : Fire Fighting Measures	
	(a) Suitable (and unsuitable) extinguishing media.	
	Extinguishing Media to Avoid :	
	Not applicable.	
	(b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).	
	Specific Hazards:	
	Not applicable	
	(c) Special protective equipment and precautions for fire-fighters.	
	Fire-Fighting Instructions / Specific Method :	
	No special fire protecting method is required. Sprinkling or fire extinguishers can be used.	
	Protection of Firefighters :	
	Wear gloves, glasses, a mask if necessary.	
	Section6 : Accidental Release Measures	
_		
	(a) Personal precautions, protective equipment, and emergency procedures.	
	Personal Precautions:	
	Not applicable	

**Environment Precautions:** 

Not applicable

(b) Methods and materials for containment and cleaning up.

Methods for Cleaning Up :
Not applicable
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Section7: Handling and Storage
(a) Precautions for safe handling.
Handling :
Technical Measures/Precautions
Not applicable
Safe Handling Advice
For the sake of quality, do not touch surface of photoreceptor.
(b) Conditions for safe storage, including any incompatibilities.
Storage :
Technical Measures
Not applicable
Storage Conditions
Keep out of reach of children.
For the sake of quality, store in dry and well-ventilated area it should not exceed 35 degree
centigrade for a long time and avoid direct sunlight.
Packaging material
Not applicable
Specific Use(s):
Image formation in printing machines or copiers.

SDS:BLACK DRUM UNIT SP C352 ( OPC )

Section8: Exposure Controls/Personal Protection

(a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH)

Threshold Limit Value (TLV), and any other exposure limit

#### **Control Parameters**

Exposure Limit Value ( I )

USA OSHA PEL (TWA) : Not applicable

ACGIH TLV (TWA) : Not applicable

DFG MAK : Not applicable

**Personal Protection** 

(b) Appropriate engineering controls.

Technical measures:

Use adequate ventilation. None required with intended use.

(c) Individual protection measures, such as personal protective equipment.

Respiratory Protections (Specify Type)

None required in normal use.

**Eye Protection** 

None required in normal use.

**Protective Gloves** 

None required in normal use.

**Protective Clothing or Equipment** 

None required in normal use.

**Hygiene Measures** 

Wash hands after handling.

## Section9: Physical and Chemical Properties

(k)Vapor Pressure (Pa)

(I)Vapor Density (AIR=1) : Not applicable

: Not applicable

(a) Appearance (physical state, color, etc.) Physical state : Solid Form : Drum Colour : Deep blue (b)Odor : No odor (c)Odor threshold : Not available (d)pH : Not applicable (e)Melting point/freezing point: Not applicable (degrees centigrade) (f)Initial boiling point and boiling : Not applicable range (g)Flash point : Not applicable (h)Evaporation Rate (Butyl Acetate = 1) : Not applicable (i)Flammability (solid, gas) : Not applicable (j)Upper/lower flammability or explosive : Upper Not applicable Lower Not applicable limits

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ity
l use.

(e)Inco	ompatible materials :
	Not applicable in normal use.
(f)Haza	ardous decomposition products :
	Decomposition products will not occur.
	Section11: Toxicological Information
/	
(a)Info	rmation on the likely routes of exposure (inhalation, ingestion, skin and eye contact)
	Not available
(b)Syn	nptoms related to the physical, chemical and toxicological characteristics
	Not available
(c)Dela	ayed and immediate effects and also chronic effects from short- and long-term exposure
	Not available
	Acute Toxicity
	Acute Oral Toxicity (LD50):
	Not available
	Acute Dermal Toxicity:
	Not available
	Acute Inhalation Toxicity:
	Not applicable
	Local effects
	Acute Skin Irritation(PII):
	Not available
	Not available  Acute Eye Irritation:

SDS:BLACK DRUM UNIT SP C352 ( OPC )

#### Sensitization

**Acute Allergenic Effects:** 

Not available

Mutagenicity: Negative (Ames test)

Reproduction Toxicity: Does not contain substances listed as hazardous to reproductive health.

Teratogenic : Not available

(d)Numerical measures of toxicity (such as acute toxicity estimates)

Not available

(e)Whether the hazardous chemical is listed in the National Toxicology Program (NTP)

Report on Carcinogens (latest edition) or has been found to be a potential carcinogen

in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

This product has no danger of carcinogenicity. Because, as for this product, is a drum form, and is strongly adhered to an aluminum substrate; the particle of photosensitive component needs not to be released.

## Section12: Ecological Information

Mobility : No data are available on the adverse effect one environment.

Persistence/Degradability: Not available

Bioaccumulation : Not known in bioaccumulation.

**Ecotoxicity** 

Acute Toxicity for Fish (LC50) : Not available

Acute Toxicity for Daphnia (EC50) : Not available

Algae Inhibition Test (IC50) : Not available

# Section13: Disposal Consideration

#### General information:

Used drum should be disposed in an environmentally appropriate manner and accordance with governmental regulations.

### Disposal methods:

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.

#### **Precautions**

Not applicable

# Section14: Transport Information

### **International Regulations**

**Land Transport** 

RID/ADR : Not applicable

DOT 49 CFR : Not applicable

ADNR : Not applicable

Sea Transport

IMDG Code : Not applicable

Air Transport

ICAO-TI/IATA-DGR : Not applicable
UN Number : Not applicable

Class : Not applicable **Specific Precautionary Transport Measures and Conditions** Keep it in cool and dry storage and avoid direct sun for quality. Section15: Regulatory Information Regulations **US** Information Information on the label: Not required TSCA (Toxic Substances Control Act): This product complies with all applicable rules and regulations under TSCA. SARA (Superfund Amendments and Reauthorization Act) Title III 313 Reportable Ingredients: Not regulated California Proposition 65 Not regulated **Canada Information** WHMIS Controlled product: Not a controlled product **EU** Information

SDS:BLACK DRUM UNIT SP C352 (OPC)

Information on the label (EU Regulation (EC)No. 1272/2008)

Symbol & Indication: Not required

**Hazard Statement: Not required** 

Precautionary statement: Not required

Special Precautions under EU Regulation 1272/2008 Annex II:

Not required

This product complies with applicable rules and regulations under 76/769/EEC

### Section 16: Other Information

Explanation of Hazardous Materials Identification System [HMIS]& National Fire Protection Association [NFPA] Hazard Rating Systems:

Both the HMIS and NFPA systems use number from "0" to "4" to show the degree of hazard in an uncontrolled situation:

0=Minimum Hazard 1=Slight Hazard 2=Moderate Hazard 3=Serious Hazard 4=Severe Hazard Colors may also be used in both systems:

Blue=Health Hazard Red=Fire Hazard Yellow=Reactivity Hazard White=Indicate a special hazard HMIS will specify any Personal Protective Equipment reqired [PPE],

NFPA will specify OX(oxidizer), Acid(acid), ALK(Alkali), COR(Corrosive), W(use no water), xx(Radioactive).

#### Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC (1996) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds", Lyon, pp149-261

H.Muhle, B.Bellman, O.Creutzenberg, C.Dasenbrock, H.Emst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein(1991) "Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats" Fundamental and Applied Toxicology 17,pp280-299

IARC (2008) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93"

NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

ACGIH-TLV : Threshold Limit Values for Chemical Substances and Physical Agents and

**Biological Exposure Indices** 

OSHA Z-Tables : US Department of Labor, 29CFR Part 1910, Tables Z-1, Z-2, and Z-3

NTP (USA) : US Department of Health and Human Services National Toxicology

**Program Annual Report on Carcinogens** 

DFG-MAK (GER): DFG List of MAK and BAT Value

Symbol (EC) : Regulation (EC)No.1272/2008

91/155/ EEC : EU Directive 91/155/ EEC

1999/45/EC : EU Directive 1999/45/EC

CLP (EC)No.1272/2008 : Regulation (EC)No.1272/2008 of the European Parliamant and of the

Council of 16 December 2008 on classification, labelling and packaging of

substances and mixtures, amending and repealing Directive 67/548/EEC and

1999/45/EC, and amending Regulation (EC)No. 1907/2006

EC 304/2003 : Regulation (EC) No 304/2003 of the European Parliament and of the Council

of 28 January 2003 concerning the export and import of dangerous

chemicals

WHMIS Controlled : Canada Workplace Hazardous Information System

product

OELs-TWA (Australia) : Guidance Note on the Interpretation of Exposure Standards for

Atmospheric Contaminants in the Occupational Environment [NOHSC: 3008

(1995)]

#### Abbreviations:

OSHA PEL PEL (Permissible Exposure Limit) under Occupational Safety and Health Act

ACGIH-TLV TLV (Threshold Limit Values) under American Conference of Governmental Industrial

Hygienists

REACH EC)No.1907/2006:Council Regulation concerning the Registration, Evaluation, Authorization

and Restriction of Chemicals

SVHC Substances of Very High Concern ECHA The European Chemicals Agency

DFG-MAK MAK (Maximale Arbeitsplatz Konzentrationen) by Deutsche Forschungs Gemeinschaft

#### SDS:BLACK DRUM UNIT SP C352 (OPC)

RoHS Restriction of the use of certain Hazardous Substances in Electrical and Electronic

Equipment

TWA Time Weighted Average

IARC International Agency for Research on Cancer

NTP National Toxicology Program

WHMIS Workplace Hazardous Information System

NOHSC National Occupational Health and Safety Commission Act 1985

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