

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 as amended

Product Name : Drum Unit P 501

SDS Number : 418094

Release Date 2018-09-03

Revision Date 2018-12-01

# RICOH

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Version 2.00

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

### 1.1. Product identifier

Product Name Drum Unit P 501 ( OPC )

SDS number 418094

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

Recommended use Print the image in printers and multi-purpose devices.

### 1.3 Information on the supplier of the safety data sheet

Importer

Ricoh Europe SCM B.V.

Blankenweg 24, 4612 RC Bergen op Zoom, The Netherlands

TEL: +31 164 280808 / FAX: +31 164 280820

<https://www.ricoh-europe.com>, [RESCM.ISI-global@ricoh-europe.com](mailto:RESCM.ISI-global@ricoh-europe.com)

Manufacture

Ricoh Co., Ltd.

Chome-3-6 Nakamagome, Ōta, Tokyo 143-8555, Japan

### 1.4 Urgent call phone number

Austria	+43 1 31 00472	Belgium	+32 (0)70 245 245
Czech Republic	+420 (0)267 125 32	Denmark	112
Finland	+358 (0)9 471 977	France	+33 (0)145 42 59 59
Germany	+49 511 67420	Hungary	+36 80 20 11 99
Ireland	111	Italy	+39 0266101029
Luxembourg	+352 8002 5500	Netherlands	+31 302748888
Poland	+48 (42) 253 84 00	Portugal	112
Slovakia	+421 2 4854 4511	Spain	+34 91 562 04 20
Sweden	+46 10 456 67 00	United Kingdom	111 (UK only)
Norway	113	Switzerland	+41 044 832 3411

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## 2. IDENTIFICATION OF DANGERS

### 2.1 Classification of the substance or mixture

According to the following data, no classification and labeling are necessary according to Regulation (EC) no. 1272/2008.

### 2.2 Elements of the label

Not applicable

### 2.3 Other hazards

No hazards are foreseen under normal conditions of use.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Mixtures

Name chemistry	% by weight	CAS NO	EC number	Classification (67/548)	Indications of danger	Registration number REACH
Al Substrate	>97	7429-90-5	231-072-3	None	None	Not covered
Charge Transport Material	<1	Confidential	Confidential	None	None	Confidential
Binder Resin	<1	Confidential	Confidential	None	None	Confidential
Organic Pigment	<1	Confidential	Confidential	None	None	Confidential
Metal oxide	<1	Confidential	Confidential	None	None	Confidential

This product does not contain any of the following substances as ingredients.

Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), SVHC (substances of very high concern: published by ECHA).

And if it contains any impurities, it does not exceed any of the thresholds of RoHS.

Full text of H indications: see Section 16

Note: components marked as "Not certified" are exempt from registration

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Inhalation** Not applicable

**Contact with the skin** Not applicable

**Eye contact** Not applicable

**Ingestion** Not applicable

#### 4.2 Most important symptoms and effects, both acute and delayed

##### **Toxicity**

**Eyes** No known effect

**Skin** No known effect

**Inhalation** No known effect

##### **Chronic effects**

**Main symptoms** Over-exposure may give rise to mild respiratory irritation

#### 4.3 Indication for immediate medical consultation and adequate medical treatment

Immediate medical intervention is not required.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Fire fighting** CO2, dry chemicals, foam or water

**Unsuitable extinguishing media**

Not applicable

### 5.2 Special hazards arising from the substance or mixture

**Specific risks** Not applicable

### 5.3 Special protective actions for firefighters

**Specific method** No special fire fighting equipment is required. You can use fire extinguishers or sprinklers.

**Fire Brigade Protection**

Wear gloves, glasses and a mask if necessary.

## 6. MEASURES IN CASE OF ACCIDENTAL RELEASE

### 6.1 Personal precautions, protective equipment and emergency procedures

Not applicable

### 6.2 Environmental precautions

Not applicable

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

Not applicable

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Handling**

**Technical measurements** Not applicable

**Advice for safe handling**

Not applicable.

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

Keep out of reach of children.

To preserve the quality, store in a dry and well-ventilated place where the temperature does not exceed along 35 degrees centigrade and without direct exposure to sunlight.

**Packaging material** Not applicable

## **7.3 Specific end use**

Print the image in printers and multi-purpose devices.

## **8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION**

### **8.1 Control parameters**

#### **Exposure limit values**

**Prepared** USA OSHA PEL (TWA): 15mg / m3 (total powder) 5.0mg / m3 (respirable fraction).

ACGIH TLV (TWA): 10mg / m3 (Inhalable fraction) 3.0mg / m3 (respirable fraction).

DFG MAK: 4.0mg / m3 (Total powder) 1.5mg / m3 (Breathable fraction)

**Substance** Not applicable

### **8.2 Exposure controls**

#### **Occupational exposure control**

Use in adequately ventilated areas. No precautions required in case of appropriate use.

#### **Control of exposure in the environment**

No precautions are necessary under normal use conditions.

### **8.3 Recommended measures for risk management, such as personal protective equipment (PPE)**

**Respiratory protections** None required in normal use

**Hand protection** None required in normal use

**Eye protection** None required in normal use

#### **Protection of skin and body**

None required in normal use.

**Hygiene measures** Wash hands after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance** Solid

**Physical state** Drum

**Color** cobalt green

**Odour** No odour

### Important information on health, safety and the environment

**pH** Not applicable

Measurement temperatures in degrees centigrade.

Specific temperatures / temperature ranges in which changes in the physical state can occur.

**Boiling point** Not applicable

**Melting Point** Not applicable

### Decomposition temperature (degrees Celsius)

Not applicable

**Flash point** Not applicable

### Properties of the explosion

This product is considered non-explosive material under normal conditions of use.

**Oxidizing properties** This product is considered non-oxidizing material under normal conditions of use.

**Evaporation degree** (Butyl acetate = 1)

Not applicable

**Steam pressure (Pa)** Not applicable

### Measuring temperature (degrees Celsius)

### Vapor density (air = 1)

Not applicable

**Density (g / cm<sup>3</sup>)** 2.5-3.5 (as aluminum)

**Relative density** Not applicable

**Viscosity (Pa · s)** Not applicable

**Solubility (g / l)** Insoluble

**Chloroform** Solubility (g / l): slightly soluble

### Octanol / water partition coefficient

Not available

### 9.2 Other information

**Volatility (%)** Below 0.1

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable.

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

There is no significant hazardous reaction expected with intended use.

### 10.4 Conditions to avoid

Not applicable in normal use.

### 10.5 Incompatible materials to avoid

Not applicable in normal use.

### 10.6 Hazardous decomposition products

Decomposition products will not occur.

## 11. TOXICOLOGICAL INFORMATION

*The toxicity data below are based on the results of reprography materials and the like.*

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity (LD50)

Not available

##### Acute dermal toxicity

Not available

##### Acute inhalation toxicity

Not available

#### Skin corrosion / irritation (PII)

Not available .

#### Serious damage / irritation of the eyes

Not available .

## Respiratory / cutaneous lesions

Not available .

## Carcinogenicity

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..

## Germ cell Germ mutagenicity

Negative (Ames test).

## Reproductive toxicity

It does not contain substances that are dangerous for reproductive health.

## STOT-Single exposure

Not available

## STOT-Repeated exposure

Not available

## Suction hazard

It does not contain substances considered to be risky for reproductive health.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Acute toxicity to the aquatic environment

##### Acute toxicity to fish (LC50)

Not available.

##### Acute toxicity for daphnia (LC50)

Not available

### 12.2 Persistence and degradability

Not available

### 12.3 Bioaccumulative potential

Not known in bioaccumulation

### 12.4 Mobility in the soil

No data are available on the adverse effect one environment

### 12.5 Results of the PBT and vPvB assessment

It is not a PBT according to REACH annex XIII

### 12.6 Other adverse effects

It is little or not at all dangerous for the environment

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Disposal considerations

#### General informations

Dispose of waste and residues in accordance with the requirements in



accordance with the local laws in force.

**Disposal methods**

The disposal methods are based on the material supplied. Disposal must be carried out in compliance with the laws and regulations in force and with the characteristics of the material at the time of disposal. Make sure that the disposal procedures comply with local regulations.

**Precautions**

Do not dispose of the toner cartridge or toner in open flames. Hot toner may scatter and cause burns or other damage .

## 14. TRANSPORT INFORMATION

**14.1 UN/ID No**

Not applicable.

**14.2 Official shipping designation**

Not applicable.

**14.3 Danger classes related to transport**

Not applicable.

**14.4 Packing group**

Not applicable.

**14.5 Environmental hazards**

It is little or not at all dangerous for the environment.

**14.6 Special precautions for users**

To preserve the quality, avoid direct sunlight.

**14.7 Wholesale transport in accordance with MARPOL 73/78 and the IBC Code**

Not applicable.

## 15. REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture**

The substance is not classified as hazardous according to Regulation (EC) No 1272/2008

The substance is not subject to regulation (EC) No 1907/2006 Annex XVII.

**15.2 Evaluation of chemical safety**

Not applicable

## 16. OTHER INFORMATION

**References to the literature**

ANSI Z400.1-1993.

ISO 11014-1.

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, pp. 149-261

H. Muhle, B. Bellman, O. Creutzenberg, C. Dasenbrock, H. Ernst, 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, pp. 280-299 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 Occupation Exposure to Titanium Dioxide DRAFT "

ACGIH-TLV: Limit threshold values for chemicals and physical agents and biological exposure indexes

OSHA Tables Z: US Department of Labor, 29 CFR 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 values

Symbol (EC): Regulations (EC) No 1272/2008

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

(EC) No 1907/2006 Annex XVII

: Regulations (EC) No 1907/2006 Annex XVII

(EC) No 689/2008: Regulations (EC) No 689/2008

Abbreviations

OSHA PEL: PEL (Permissible Exposure Limit, Tolerable Exposure Limit), in Occupational Safety and Health Act

ACGIH-TLV: TLV (Threshold Limit Values) in the American Conference of Governmental Industrial Hygienists

REACH: (CE) No. 1907/2006: Council regulation concerning registration, evaluation, authorization and restriction of chemicals

SVHC: Substances of Very High Concern (extremely problematic substances)

ECHA: European Chemicals Agency (European Chemicals Agency)

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

RoHS: Restriction of the use of certain hazardous substances in electrical equipment and electronic

TWA: Time Weighted Average (time weighted average)

IARC: International Agency for Research on Cancer (International Agency for Cancer Research)

NTP: National Toxicology Program

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