

1. Identification

Product identifier	RICOH Cleaning Cartridge For Enhancer Slot Type P1
Other means of identification	
SDS No.	342822
Recommended use	The Image Formation of Printing Machine or Copier. ink product Ink Cartridge
Recommended restrictions	No other uses are advised.
Manufacturer/Importer/Supplier/Distributor information	
Company name	Ricoh USA, Inc.
Department	Environmental Sustainability and Product Compliance
Address	2 Gatehall Drive, Suite 204 Parsippany, NJ 07054, U.S.A.
Phone	1-973-882-2000 or 1-973-882-5218 (For product information)
Emergency Contact	1-800-336-6737
E-mail	environmentinfo@ricoh-usa.com

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	60-80
Glycol		Confidential	10-30

Composition comments This product does not contain any of the following RoHS substances as ingredients. Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls (PBB), Polybrominated diphenylethers (PBDE), Phthalate esters (DEHP, BBP, DBP, and DIBP), SVHC (substances of very high concern: published by ECHA).

4. First-aid measures

Inhalation	Move to fresh air. Get medical attention, if needed.
Skin contact	Wash off with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	Rinse with plenty of water. If irritation persists get medical attention.
Ingestion	Rinse mouth thoroughly. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed	Not available.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water. Foam. Dry chemicals. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation.
Methods and materials for containment and cleaning up	Wipe up with absorbent material (e.g. cloth, fleece). For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Do not use in areas without adequate ventilation. Avoid contact with skin and eyes.
Conditions for safe storage, including any incompatibilities	Store at 5 - 35 °C and protect from sunlight.

8. Exposure controls/personal protection

Occupational exposure limits	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide adequate ventilation.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear appropriate protective goggles.
Skin protection	
Hand protection	Wear suitable gloves.
Other	Wear suitable protective clothing.
Respiratory protection	Wear suitable respiratory protection.
Thermal hazards	Not applicable.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Not available.
Color	Clear.
Odor	Slight characteristic odor
Odor threshold	Not available.
pH	>= 7 - <= 9
Melting point/freezing point	Not available.
Initial boiling point and boiling range	>212 °F (>100 °C)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Easily soluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity <10 mPa·s

Other information

Density $\geq 1.00 - \leq 1.20 \text{ g/cm}^3$

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions None known.

Conditions to avoid Sunlight. High temperatures.

Incompatible materials None known.

Hazardous decomposition products No dangerous reaction known under conditions of normal use.

11. Toxicological information**Information on likely routes of exposure**

Inhalation Not available.

Skin contact Not available.

Eye contact Not available.

Ingestion Not available.

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Information on toxicological effects

Acute toxicity Oral ATE> 5000 mg/kg

Skin corrosion/irritation**Irritation Corrosion - Skin: P.I.I. value**

RICOH Cleaning Cartridge For Enhancer Slot Type P1 Result: Non-irritant
Notes: OECD guidelines No.404

Serious eye damage/eye irritation**Irritation Corrosion - Eye**

RICOH Cleaning Cartridge For Enhancer Slot Type P1 Result: Non-irritant
Notes: This information is based on toxicity data for similar materials and ingredients.

Respiratory or skin sensitization**Skin sensitization****Skin sensitization**

RICOH Cleaning Cartridge For Enhancer Slot Type P1 Result: Non-skingsensitive
Notes: OECD Guidelines No.406 Buehler Test

Germ cell mutagenicity Not available.

Germ cell mutagenicity: Ames test

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Result: Negative

Notes: Results of an assay using five bacterial strains and six concentrations. Not conducted dose range-finding test.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Not available.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not available.

12. Ecological information

Ecotoxicity Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from residues / unused products Not available.

Contaminated packaging Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

16. Other information, including date of preparation or last revision

Issue date 03-03-2023

Version # 01

References ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
HSDB® - Hazardous Substances Data Bank
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits
JIS Z 7252:2019 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"
JIS Z 7253:2019 Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS)
Taiwan. OELs. (Standards on Workplace Atmosphere of Dangerous and Hazardous Materials)
National Toxicology Program (NTP) Report on Carcinogens
US. IARC Monographs on Occupational Exposures to Chemical Agents

Disclaimer Not available.