

InfoPrint Color 1824, 1826 MFP Cyan Developer Unit

Section 1. Identification **GHS product identifier** : InfoPrint Color 1824, 1826 MFP Cyan Developer Unit **Product type** : Solid. Powder. **Description**: Part number : Use and Return Program Extra High Yield Toner 39V2431 Cartridge, Cyan Extra High Yield Toner Cartridge, Cyan 39V2435 Use and Return Program Extra High Yield Toner 39V3349 Cartridge, Cyan Developer Unit, Cyan 39V3356 For actual printer/cartridge compatibility please reference http://www.infoprintsolutionscompany.com : Laser Printer (InfoPrint Color 1824, 1825, 1826 MFP, &1836 MFP, MT4985/4989) Application **Supplier's details** Ricoh 6300 Diagonal Highway Boulder, Co 80301-9270 http://www.infoprintsolutionscompany.com : msdsinfo@infoprint.com e-mail address of person responsible for this SDS **Emergency telephone** 1-303-739-1111 number (with hours of operation) Section 2. Hazards identification **OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product. **Classification of the** : Not classified. substance or mixture Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 11.5% **GHS** label elements Signal word : No signal word. **Hazard statements** : No known significant effects or critical hazards. **Precautionary statements** Read label before use. Keep out of reach of children. If medical advice is needed, General 2 have product container or label at hand. **Prevention** : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise
classified: Handling and/or processing of this material may generate a dust which can cause
mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

: Mixture

Substance/mixture

Date of issue/Date of revision

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Low acute inhalation toxicity. As with exposure to high concentrations of any dust, minimal irritation of the respiratory tract may occur. Pure carbon black and titanium dioxide, minor components of this product, has been listed by IARC as a group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate. Toner is not listed by IARC, NTP, or OSHA. Skin contact : No known significant effects or critical hazards. Ingestion : Low acute oral toxicity. Exposure not probable with intended use. **Over-exposure signs/symptoms** Eye contact : Adverse symptoms may include the following: irritation redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing **Skin contact** : No specific data. Ingestion : No specific data. Indication of immediate medical attention and special treatment needed, if necessary : In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician The exposed person may need to be kept under medical surveillance for 48 hours. **Specific treatments** No specific treatment. 5 **Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

: 01/28/2014. Date of previous issue

2/9

Version :1

: No previous validation.

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: None required for intended use in printer.
Hazardous thermal decomposition products	: Carbon monoxide, carbon dioxide, unidentified organics.
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	: Like many finely divided materials, toner dust, in high concentrations can form an explosive mixture in air which, if ignited, could result in a dust explosion.

Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: None required for intended use in printer.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: None required for intended use in printer.
Methods and materials for co	ontainment and cleaning up
Small spill	 Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures :

: Avoid generating dust. To avoid damage to cartridge and accidental contact with toner, keep out of reach of children.

Date of issue/Date of revision : 01	1/28/2014. Date o	of previous issue	No previous validation.	Version	:1	3/9
-------------------------------------	-------------------	-------------------	-------------------------	---------	----	-----

Section 7. Handling and storage

Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in a cool, dry place. Store away from oxidizing material.

Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure lin	<u>nits</u>
None.	
Appropriate engineering controls	: Not required. Use in a well-ventilated area.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Individual protection measure	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: None required for intended use in printer.
Skin protection	
Hand protection	: None required for intended use in printer.
Body protection	: None required for intended use in printer.
Other skin protection	: None required for intended use in printer.
Respiratory protection	: None required for intended use in printer.

Section 9. Physical and chemical properties

Appearance

Physical state	: Solid. [Toner Cartridge]
Color	: Blue.
Odor	: Faint odor. (Plastic.)
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Solid. Not applicable.
Burning time	: Not available.
Burning rate	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.

Date	of	issue/	Date o	of revi	sion
	- · ·				

: 01/28/2014. Date of previous issue

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	1	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Insoluble in the following materials: cold water and hot water.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Strong oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.Carbon monoxide, carbon dioxide, unidentified organics.

Section 11. Toxicological information

Information on toxicological effects

Acuto	tow	alter
Acute	LOX	City

Product/ingredient name	Result	Species	Dose	Exposure
Cyan Toner Cartridge	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Date	of	issue	/Date	of	revision	

: 01/28/2014. Date of previous issue

Section 11. Toxicological information

	5
Teratogenicity Not available.	
Specific target organ toxici Not available.	<u>ty (single exposure)</u>
Specific target organ toxici Not available.	ty (repeated exposure)
Not available.	
Aspiration hazard	
Not available.	
Information on the likely routes of exposure	: Inhalation of dust, skin contact.
Potential acute health effect	<u>8</u>
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Low acute inhalation toxicity. As with exposure to high concentrations of any dust, minimal irritation of the respiratory tract may occur. Pure carbon black and titanium dioxide, minor components of this product, has been listed by IARC as a group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate. Toner is not listed by IARC, NTP, or OSHA.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Low acute oral toxicity. Exposure not probable with intended use.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Date of issue/Date of revision	: 01/28/2014. Date of previous issue : No previous validation. Version : 1 6/9
,	

Section 11. Toxicological information

	•
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards. Toner is negative (nonmutagenic) in the Ames assay.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Other information

: Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.

Toner dust is a particulate not otherwise classified (PNOC) or regulated (PNOR).

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil Soil/water partition : Not available. coefficient (Koc) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Date of issue/Date of		01/28/2014. Date o	f previous issue	: No previous val	idation. Version	:1 7/

Section 14. Transport information

Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Section 15. Regulatory information

United States				
TSCA (USA)	: All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.			
SARA / EPCRA (USA)	 None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302: Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304. 			
California Prop. 65	This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm - California Proposition 65.			
International regulations list				
EINECS (Europe)	: All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.			
REACH Status	: Article.			
ENCS (Japan)	 All ingredients are listed on the Japanese Existing and New Chemical Substances (ENCS) list, have been registered, or are exempt. 			
AICS (Australia)	: All ingredients are listed in Australian Inventory of Chemical Substances (AICS), have been registered, or are exempt.			
Philippines inventory (PICCS)	: All ingredients are listed on the Philippines Inventory (PICCS) or are exempt.			
Korea inventory (KECI)	: All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.			
China inventory (IECSC)	: All ingredients are listed on the Chinese inventory (IECSC) or are exempt.			
Canada				
WHMIS (Canada)	: Not controlled under WHMIS (Canada).			
DSL/NDSL	: All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.			
Mexico Classification	: Health: 1 Flammability: 1 Reactivity: 0			

: 01/28/2014. Date of previous issue

: No previous validation.

Version :1

8/9

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 01/28/2014.
Date of previous issue	: No previous validation.
Version	: 1
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

9/9