Staples the Office Superstore, LLC.
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Business Phone: 1.800.322.0912
24-HR MEDICAL AND DOT EMERGENCIES: 1.800.322.0912

MSDS Hazard Rating	HMIS	NFPA
Health		
Flammability		
Reactivity		
Special		

MATERIAL SAFETY DATA SHEET

Complies with ANSI Z400.1 Format

SECTION 1: PRODUCT IDENTIFICATION

Product: MSDS CODE: 937946, 410152, 10/9/2012

This MSDS applies to Product Numbers: 937946, 410152

PRODUCT NAME: **Canon CLI-226 Magenta Remanufactured Inkjet Cartridge**
MODEL #: **SIC-R226M, SIC-R225226BC4**
DATE ISSUED: **10/9/2012**

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
This product is a red liquid with a mild odor.

CAUTION!
May cause mild eye and skin irritation. Inhalation of vapors or mists may cause irritation, headache, dizziness and other central nervous system effects. Swallowing may cause kidney damage. May be absorbed through the skin to cause effects similar to inhalation. Aspiration during swallowing or vomiting may cause lung damage.

See Section 11 for detailed health effects information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#.	WT.%
2-Pyrrolidone	616-45-5	5 - 10
Diethylene Glycol mono butyl ether	112-34-5	1 - 5
Diethylene Glycol	111-46-6	1 - 10
Glycerin	56-81-5	1 - 10

Refer to Section 8 for occupational exposure limits.

SECTION 4: FIRST AID MEASURES

24-HR MEDICAL EMERGENCY PHONE: 1.888.322.0912

INGESTION:
Call a poison control center or doctor immediately for treatment advice. If conscious, give one 8 ounce glass of water to dilute. DO NOT induce vomiting unless directed by medical personnel. Do not give anything by mouth to or induce vomiting in a person who is unconscious or convulsing.

SKIN CONTACT:
Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops and persists. Launder contaminated clothing before reuse. Discard contaminated clothing such as shoes that cannot be decontaminated.

EYE CONTACT:
Flush eyes with water while lifting the upper and lower lids. Get medical attention.

INHALATION:
Remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT:
None

AUTOIGNITION TEMPERATURE:
Not available

FLAMMABLE LIMITS:
(vol % in air) LEL: 0.8% (Diethylene glycol mono butyl ether)
UEL: 24.6%(Diethylene glycol mono butyl ether)

EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide and dry chemical

SPECIAL FIRE FIGHTING PROCEDURES:
Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposed containers and structures with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None known.

HAZARDOUS COMBUSTION PRODUCTS:
Carbon monoxide, carbon dioxide, tetrahydrofuran and oxides of nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Wear appropriate protective clothing as described in Section 8. Dike spill and absorb with inert material. Collect into closable containers for proper disposal. Report spill as required by local and federal regulations.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Protect containers from physical damage. Store in a cool, dry area away from oxidizers and other incompatible materials.

Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use with adequate ventilation. Remove and launder contaminated clothing before re-use. Wash thoroughly after handling and before eating, drinking, smoking or using toilet facilities.

OTHER PRECAUTIONS: Empty containers retain product residues and are hazardous. Follow all MSDS precautions in handling empty containers.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS	CAS#.	EXPOSURE LIMITS
2-Pyrrolidone	616-45-5	None established
Diethylene glycol mono butyl ether	112-34-5	None established
Diethylene Glycol	111-46-6	10 mg/m^3 TWA AIHA WEEL
Glycerin	56-81-5	5 mg/m^3 TWA OSHA PEL (respirable fraction) 10 mg/m^3 TWA ACGIH TLV

VENTILATION:
Provide adequate general or local exhaust ventilation to maintain vapor concentrations below the exposure limits.

RESPIRATORY PROTECTION:
Use NIOSH approved respirator with organic vapor cartridges or supplied air respirator if needed. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

EYE PROTECTION:
Chemical safety goggles and faceshield if splashing is possible.

PROTECTIVE CLOTHING:
Butyl rubber or other impervious gloves are recommended. Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible.

OTHER PROTECTIVE EQUIPMENT:
For operations where contact can occur, an eye wash facility should be immediately available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (@760 mmHg):	212F
FREEZING POINT:	Not available
SPECIFIC GRAVITY (H_20=1):	1.03
COEFFICIENT of WATER/OIL:	Not available
VAPOR PRESSURE:	17.5 mmHg
EVAPORATION RATE:	< Butyl Acetate
VAPOR DENSITY (Air=1):	Heavier than air
pH:	7.0 - 8.5
SOLUBILITY IN WATER:	Complete
APPEARANCE AND ODOR:	Red liquid with a mild odor.

SECTION 10: STABILITY AND REACTIVITY

STABILITY:
Stable.

CONDITIONS TO AVOID:
None known.

INCOMPATIBILITY:
Strong oxidizing agents, strong acids, strong bases, and strong hydrogen peroxide.

HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition may yield carbon monoxide, carbon dioxide, tetrahydrofuran, and nitrogen oxides.

HAZARDOUS POLYMERIZATION:
Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT:
May cause irritation with redness and pain.

SKIN CONTACT:
Contact with skin may cause irritation with redness, swelling, and cracking. Widespread contact may cause adsorption with symptoms similar to inhalation.

INHALATION:
Vapors or mists may cause respiratory irritation with headache, dizziness, drowsiness, narcosis, constriction of the pupils, incoordination, visual disturbances, euphoria, fatigue, and unconsciousness.

INGESTION:
Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, narcosis, construction of pupils, increased blood sugar levels, loss of reflexes, severe metabolic acidosis and damage to the kidneys and liver.

CHRONIC EFFECTS of OVEREXPOSURE:
Prolonged exposure may cause dermatitis. 2-pyrrolidione was found to cause birth defects in studies with laboratory animals. Diethylene glycol has been found to be positive in the Ames Assay for mutagenicity.

CARCINOGENICITY:
None of the components are listed as carcinogenic by NTP, IARC, or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Individuals with chronic respiratory, skin, liver, and kidney diseases may be at increased risk from exposure to this material.

TOXICOLOGY DATA:
Toxicity values for this chemical are:

2-Pyrrolidone	**Oral rat LD_{50}:** 6,500 mg/kg
Glycerin	**Oral Rat LD_{50}:** 12,600 mg/kg **Skin Rabbit LD_{50}:** >10,000 mg/kg **Inhalation Rat LC_{50}:** >570 mg/m^3 / 1 hour
Diethylene glycol mono butyl ether	**Oral rat LD_{50}:** 5,660 mg/kg
Diethylene Glycol	**Oral Rat LD_{50} :** 12,565 mg/kg **Skin Rabbit LD_{50} :** 11,890 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

2-Pyrrolidone	EC_{50}/48 hour daphnia magna >500 mg/l LC_{50}/48 hour golden orfe >500 mg/l
Diethylene Glycol	No Data Available
Diethylene glycol mono butyl ether	LC_{50}/24 Goldfish 2700 mg/l LC_{50}/96 hour Menidia beryllina 2000 ppm
Glycerin	No Data Available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Dispose of in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT EMERGENCY 24-HR: 1.888.322.0912

DOMESTIC TRANSPORTATION

DOT SHIPPING NAME: Not Regulated

DOT HAZARD CLASSIFICATION: Not Regulated

DOT LABELS REQUIRED (49CFR172.101): Not Applicable

UN NUMBER: None

INTERNATIONAL TRANSPORTATION

IMDG SHIPPING NAME: Not Regulated

IMDG CLASS: Not Regulated

UN NUMBER: Not Applicable

IMDG LABEL: None

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD CLASSIFICATION: Irritant, target organ effects,

EPA SARA 311 HAZARD CLASSIFICATION: Acute health, chronic health

SARA TITLE 111 SECTION 313 INFORMATION: This product contains the following chemicals that are regulated under SARA 313:

COMPONENT	CAS#	WT%
Glycol Ethers (Diethylene glycol mono butyl ether)	N/A	1 - 5

CERCLA HAZARDOUS SUBSTANCE (40CFR 116): Not applicable

REPORTABLE QUANTITY: Not applicable

STATE R-T-K COMPOSITION INFORMATION

COMPONENT	CAS#	WT%	PA	MA
Diethylene glycol mono butyl ether	112-34-5	1 - 5	N	N
Diethylene Glycol		1 - 10	Y	N
Glycerin		1 - 10	Y	Y

CALIFORNIA PROPOSITION 65 INFORMATION: This product contains no California Proposition 65 regulated chemicals.

WHMIS CLASSIFICATION: Class D - Division 2 - Subdivision A (Very toxic material causing other toxic effects)

SECTION 16: OTHER INFORMATION

All information contained in this Material Safety Data Sheet is provided to the best of Staples the Office Superstore's knowledge. No warranty is made with respect to this information, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Users are responsible for verifying the information under their own operating conditions to determine whether the products listed in the MSDS are suitable for their intended use. The information contained herein is confidential, intended solely for the user's internal use and may not be provided to any third parties. Users are responsible for compliance with all laws and regulations as may be required by their receipt of the information and use of the products provided with this MSDS.

NFPA Rating:	**Health = 1**	**Fire = 0**	**Reactivity = 0**
HMIS Rating:	**Health = 1**	**Fire = 0**	**Reactivity = 0**