



## MATERIAL SAFETY DATA SHEET REMANUFACTURED CANON CL-211XL

### SECTION 1: IDENTIFICATION

<b>MANUFACTURER:</b>	Clover Technologies Group	<b>EMERGENCY NUMBER:</b>	(815) 431-8100
<b>ADDRESS:</b>	4200 Columbus Street	<b>INFORMATION NUMBER:</b>	(815) 431-8100
	Ottawa, IL 61350	<b>DATE OF REVISION:</b>	May 14, 2014

### SECTION 2: PRODUCT COMPONENTS

INGREDIENTS	CAS#.	Cyan WT. %	Magenta WT. %	Yellow WT. %
Diethylene Glycol	Trade Secret	1 - 10	1 - 10	1 - 10
2-Pyrrolidone	Trade Secret	1 - 10	1 - 10	1 - 10
Glycerin	Trade Secret	1 - 5		1 - 5
Diethylene Glycol mono butyl ether	Trade Secret		1 - 5	

### SECTION 3: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** This product contains cyan (blue), magenta (red), and yellow liquids with a mild odor.

**CAUTION!** May cause eye and skin irritation. Inhalation of vapors may cause irritation, headache, nausea and central nervous system effects. Prolonged overexposure may cause damage to the liver and kidneys. 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 4: EMERGENCY and FIRST AID PROCEDURES

**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 for 15 minutes 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 and EXPLOSION HAZARD DATA

**FLASH POINT:** None

**AUTOIGNITION TEMPERATURE:** Not available

**FLAMMABLE LIMITS:** (vol % in air) LEL: 0.8% (diethylene glycol monobutyl ether)  
UEL: 24.6% (diethylene glycol monobutyl 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 and carbon dioxide, tetrahydrofuran and oxides of nitrogen.



## MATERIAL SAFETY DATA SHEET REMANUFACTURED CANON CL-211XL

### 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 an 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 (68°F), 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.

### SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

INGREDIENTS	CAS#.	EXPOSURE LIMITS
Diethylene Glycol	111-46-6	10 mg/m <sup>3</sup> TWA AIHA WEEL
2-Pyrrolidone	616-45-5	None Established
Glycerin	56-81-5	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 10 mg/m <sup>3</sup> TWA ACGIH TLV
Diethylene Glycol Monobutyl Ether	112-34-5	None Established

**EXPOSURE LIMITS:** Use in a well ventilated area.

**PERSONAL PROTECTIVE EQUIPMENT:** Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**PROTECTIVE CLOTHING:** Use personal protective equipment to minimize exposure to skin and eye.

### SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

**BOILING POINT (@760 mmHg):** 212°F

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.00 – 1.10

**VAPOR PRESSURE:** 17.5 mmHg

**VAPOR DENSITY (Air=1):** Heavier than air

**SOLUBILITY IN WATER:** Complete

**APPEARANCE:** Cyan, Magenta, and Yellow liquids.

**FREEZING POINT:** Not available

**COEFFICIENT of WATER/OIL:** Not available

**EVAPORATION RATE:** < Butyl Acetate

**pH:** 6.5-8.5

### SECTION 10: STABILITY and REACTIVITY

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** None known.

**INCOMPATIBILITY:** Strong oxidizing agents, strong acids and strong bases.

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

**HAZARDOUS POLYMERIZATION:** Will not occur.



## MATERIAL SAFETY DATA SHEET REMANUFACTURED CANON CL-211XL

### SECTION 11: TOXICOLOGICAL INFORMATION

**EYE CONTACT:** May cause mild irritation with redness and tearing

**SKIN CONTACT:** Contact may cause mild skin irritation.

**INHALATION:** Vapors or mists may cause respiratory irritation with headache, dizziness, nausea, drowsiness, incoordination, euphoria, visual disturbances, fatigue and unconsciousness.

**INGESTION:** Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, severe metabolic acidosis and damage to the kidneys and liver. Aspiration into the lungs during swallowing or vomiting may cause lung damage.

**CHRONIC EFFECTS of OVEREXPOSURE:** Prolonged exposure may cause dermatitis. Prolonged or repeated over exposure may cause damage to the kidneys or liver. Diethylene glycol has been found to be positive in the Ames Assay for mutagenicity.

**CARCINOGENICITY:** None of the components of this product are listed as a carcinogen by NTP, IARC or OSHA. 2-pyrrolidone was found to cause birth defects in studies with laboratory animals.

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

**TOXICOLOGY DATA:** Toxicity values for this chemical are:

Diethylene Glycol:	Oral rat LD <sub>50</sub> : 12,565 mg/kg
	Skin Rabbit LD <sub>50</sub> : 11,890 mg/kg
2-Pyrrolidone:	Oral rat LD <sub>50</sub> : 6,500 mg/kg
Glycerin:	Oral rat LD <sub>50</sub> : 12,600 mg/kg
	Skin Rabbit LD <sub>50</sub> : >10,000 mg/kg
	Inhalation Rat LC <sub>50</sub> : >570 mg/m <sup>3</sup> /1 hour
Diethylene Glycol Monobutyl Ether:	Oral rat LD <sub>50</sub> : 5,660 mg/kg

### SECTION 12: ECOLOGICAL INFORMATION

Diethylene Glycol:	No data available
2-Pyrrolidone:	EC <sub>50</sub> /48 hr daphnia magna > 500 mg/l
	LC <sub>50</sub> /48 hour golden orfe >500 mg/l
Glycerin:	No data available
Diethylene Glycol Monobutyl Ether:	LC <sub>50</sub> /24 hr Goldfish 2700 mg/l
	LC <sub>50</sub> /96 hour menidia beryllina 2000 ppm

### SECTION 13: DISPOSAL INFORMATION

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



**MATERIAL SAFETY DATA SHEET**  
**REMANUFACTURED CANON CL-211XL**

**SECTION 14: TRANSPORTATION INFORMATION**

**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

**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 Monobutyl Ether)	112-34-5	1 - 10

**CERCLA HAZARDOUS SUBSTANCE (40CFR 116):** Not applicable

**REPORTABLE QUANTITY:** Not applicable

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

**WHMIS CLASSIFICATION:** Class D - Division 2 - Subdivision B (Toxic material causing other chronic effects)

**SECTION 16: OTHER INFORMATION**

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

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