

# MATERIAL SAFETY DATA SHEET

MSDS 825388-001

Date: Mar 20, 2008

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** HP2600 Toner - Yellow  
**PART NUMBER:** DPC2600Y, CTG2600MY & DPC2600YS  
**COMPANY:** Clover Technologies Group  
**ADDRESS:** 2001 Anchor Court  
Thousand Oaks, CA 91320  
**TELEPHONE:** (800) 232-2141

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient:</b>	<b>OSHA</b>	<b>CAS No.:</b>	<b>ACGIH</b>	<b>NIOSH</b>	<b>% in Mixture:</b>	<b>UNIT OF MEASURE</b>
Pigment		Proprietary			1 - 20	
<b>TWA</b>	NE		NE	NE		mg/cu.meter
<b>STEL</b>	NE		NE	NE		mg/cu.meter
<b>IDLH</b>	NA		NA	NE		mg/cu.meter
<b>Ingredient:</b> Silica, amorphous		<b>CAS No.:</b> Proprietary	<b>ACGIH</b>	<b>NIOSH</b>	<b>% in Mixture:</b> < 5	<b>UNIT OF MEASURE</b>
<b>TWA</b>	80 / % SiO2		10	6		mg/cu.meter
<b>STEL</b>	NE		NE	NE		mg/cu.meter
<b>IDLH</b>	NA		NA	NE		Mg/cu.meter
<b>Ingredient:</b> Styrene Acrylate Copolymer		<b>CAS No.:</b> Proprietary	<b>ACGIH</b>	<b>NIOSH</b>	<b>% in Mixture:</b> 70 - 95	<b>UNIT OF MEASURE</b>
<b>TWA</b>	NE		NE	NE		mg/cu.meter
<b>STEL</b>	NE		NE	NE		mg/cu.meter
<b>IDLH</b>	NA		NA	NE		mg/cu.meter

## SECTION 3 – HAZARDS IDENTIFICATION

**PRIMARY ENTRY ROUTES:** Absorbtion, Ingestion, Inhalation  
**TARGET ORGANS:** N/A  
**INHALATION EFFECTS:** Slight irritation of respiratory tract  
**EYE EFFECTS:** Dust may cause irritation by mechanical abrasion  
**SKIN EFFECTS:** May cause skin irritation.  
**INGESTION EFFECTS:** N/A  
**CARCINOGENICITY:** N/A  
**MEDICAL CONDITIONS AGGRAVATED BY LONG-TERM EXPOSURE:** Accumulations of dust in the respiratory system may cause congestion.  
**CHRONIC EFFECTS AND/OR RECOMMENDATIONS::** If use generates airborne particles, treat as a NUISANCE PARTICULATE (ACGIH TLV=10mg/cu. Meter)



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## SECTION 4 – FIRST AID MEASURES

<b>INHALATION:</b>	Protect yourself with appropriate PPE, remove the person to fresh air. Decontaminate and begin resue breathing if breathing has stopped and CPR if heart action has stopped. Seek prompt medical attention.
<b>EYE:</b>	DO NOT allow victim to rub or keep eyes tightly shut. Gently lift eyelids and immediately flush eyes with large amounts of water. Remove any contacts lenses. Continue to flush for at least 30 minutes, occasionally lifting the upper and lower lids. Seek prompt medical attention.
<b>SKIN:</b>	Quickly remove contaminated clothing. Immediately wash area with large amounts of water. Seek prompt medical attention for any reddened skin other than from washing.
<b>INGESTION:</b>	Never give anything by mouth to an unconscious or convulsing person. Contact a Poison Control Center (PPC). Unless the PCC advises otherwise, have the conscious and alert person drink 1 to 2 glasses of water to dilute. Induce vomiting only after recent ingestions due to the possibility of seizures. Seek prompt medical attention.
<b>ADDITIONAL FIRST AID INFORMATION:</b>	N/A

## SECTION 5 – FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	N/A
<b>FLASH POINT METHOD:</b>	N/A
<b>FLAMMABILITY CLASSIFICATION:</b>	1 Slight (HMIS, NFPA)
<b>AUTO IGNITION TEMPERATURE:</b>	ND
<b>LEL:</b>	N/A
<b>UEL:</b>	N/A
<b>BURNING RATE:</b>	N/A
<b>EXTINGUISHING MEDIA:</b>	Water spray, dry chemical, foam, carbon dioxide, or halon-type extinguishers.
<b>UNUSUAL FIRE/EXPLOSION HAZARDS:</b>	May form flammable dust-air mixture.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Carbon monoxide, carbon dioxide, and smoke. Under certain conditions some aliphatic aldehydes and carboxylic acids may form.
<b>FIRE-FIGHTING INSTRUCTIONS:</b>	Do not release runoff from fire control methods to sewers or waterways.
<b>FIRE-FIGHTING EQUIPMENT:</b>	Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with full facepiece operated in pressure-demand or positive-pressure mode.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>CONTAINMENT METHOD:</b>	When cleaning up spilled material, keep unnecessary away, isolate area. and denv entrv unitl the spilled material has been
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## SECTION 7 – HANDLING AND STORAGE

<b>HANDLING PRECAUTIONS:</b>	Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.
<b>STORAGE REQUIREMENTS:</b>	Product is prone to gradual oxidation which may reduce quality over time.
<b>REGULATORY REQUIREMENTS:</b>	Follow all applicable local, state, and Federal regulations.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>ENGINEERING CONTROLS: VENTILATION:</b>	The best protection is to enclose operations and or provide local exhaust ventilation systems to maintain airbourne concentrations below OSHA PELs (sec.2). Local exhaust ventillation is preffered because it prevents contaminent dispersion into the work area by controlling it at its source.
<b>ADMINISTRATIVE CONTROLS: RESPIRATORY PROTECTION:</b>	IMPOPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advise prior to respirator selection and use. Follow OSHA respirator regualations (29 CFR 1910.134 & 1910.137) and, if necessary, wear a MSHA/NIOSH-approved repirator. Select Respiratorbased on its suitability to provide adequate worker protection for given working conditions, level of airbourne contamination, and presence of sufficient oxygen. For emergency or nonroutine operation (cleaning spills, reactor vessels, or starage tanks), wear an SCBA. <i>Warning! Air-purified respirators do not protect workers in oxygen-deficient atmospheres. If Respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning and convenient, sanitary storage areas.</i>
<b>PROTECTIVE CLOTHING/EQUIPMENT:</b>	Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective Eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29CFR 1910.133). Contact lenses are not eye protectiv devises. Appropriate protection must be worn instead of, or in conjuction with contact lenses.
<b>SAFETY STATIONS:</b>	Make emergency eyewash stations and washing facilities available in work area.
<b>CONTAMINATED EQUIPMENT:</b>	Separate containimated work clothing from street clothes. launder before re-use. Remove this material from your shoes and clean personal protective equipment.
<b>COMMENTS:</b>	Never eat, drink, or smoke in work areas. Praticice good personal hygiene after using this material, especially before eating, drinking using the toilet, or applying cosmetics.



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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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<b>BOILING POINT:</b>	N/A
<b>FREEZING/MELTING POINT:</b>	100-150°C
<b>ODOR THRESHOLD:</b>	ND
<b>PHYSICAL STATE:</b>	Solid
<b>VISCOSITY:</b>	N/A
<b>REFRACTIVE INDEX:</b>	N/A
<b>Vapor density (Air=1):</b>	Heavier than air
<b>APPEARANCE AND ODOR:</b>	Yellow fine powder, faint odor
<b>%VOLATILE:</b>	N/A
<b>SURFACE TENSION:</b>	N/A
<b>VAPOR PRESSURE:</b>	N/A
<b>WATER SOLUBILITY:</b>	Negligible
<b>DENSITY:</b>	1.0 – 2.0
<b>EVAPORATION RATE:</b>	N/A
<b>FORMULA WEIGHT:</b>	N/A
<b>OTHER SOLUBILITY:</b>	Partial soluble in Toluene & Xylene
<b>Ph:</b>	N/A
<b>SPECIFIC GRAVITY where Water = 1 at 4°C:</b>	N/A
<b>ADDITIONAL COMMENTS:</b>	N/A

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## SECTION 10 – STABILITY AND REACTIVITY

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<b>STABILITY:</b>	Stable under conditions of normal use.
<b>POLYMERIZATION:</b>	Hazardous polymerization cannot occur.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Combustion will produce carbon dioxide and possibly chemicals such as carbon monoxide.
<b>CHEMICAL INCOMPATIBILITIES</b>	N/A
<b>CONDITIONS TO AVOID:</b>	N/A
<b>OTHER COMMENTS:</b>	N/A

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## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>EYE EFFECTS:</b>	N/A	<b>ACUTE ORAL EFFECTS:</b>	N/A
<b>ACUTE INHALATION EFFECTS:</b>	N/A	<b>MUTAGENICITY:</b>	N/A
<b>SKIN EFFECTS:</b>	N/A	<b>CHRONIC EFFECTS:</b>	N/A
<b>CARCINOGENICITY:</b>	N/A	<b>TERATOGENICITY:</b>	N/A

### EXPLANATION of TOXICOLOGICAL CRITERIA

**CHEMICAL COMPONENT: Pigment**

<b>HEALTH EFFECTS:</b>	Ames Test Negative. LD50>5000 mg/kg
<b>INHALATION:</b>	Acute Exposure: May cause irritation of the mucous membranes. Chronic Exposure: No data available.
<b>SKIN CONTACT:</b>	Chronic Exposure: Repeated contact may cause an allergic reaction.
<b>EYE CONTACT:</b>	Acute Exposure: Contact may cause mechanical irritation.
<b>INGESTION:</b>	Acute Exposure: The LD50 reported in rats was>50000 mg/kg. Ingestion may result in gastric disturbances.

**CHEMICAL COMPONENT: Silica, amorphous**

<b>SILICON DIOXIDE:</b>	
<b>CARCINOGEN STATUS: IARC</b>	Human Inadequate Evidence, Animal Inadequate Evidence, Group 3, (Amorphous silica)
<b>MEDICAL CONDITIONS</b>	Respiratory disorders
<b>AGGRAVATED BY EXPOSURE:</b>	
<b>HEALTH EFFECTS:</b>	
<b>INHALATION:</b>	
<b>ACUTE EXPOSURE: SILICON DIOXIDE:</b>	Dusts may cause irritation of the respiratory tract and coughing.
<b>CHRONIC EXPOSURE: SILICON DIOXIDE:</b>	Exposure to dusts of amorphous silica for 6 months to 30 years may result in silicosis with symptoms of cough, chest pain, dyspnea, tachypnea, marked weakness, and weight loss. This pulmonary insufficiency may be characterized by diffuse nodular fibrosis, distortion of bronchi, bullous emphysema. Although pulmonary fibrosis has been reported from the workers exposed to amorphous silica, the crystalline form is the established cause of fibrotic response in the lung. However, the amorphous form has been reported as fibrogenic to a lesser extent. As the disease progresses, cor pulmonale, Cardiorespiratory failure, and death may occur.
<b>SKIN CONTACT:</b>	
<b>ACUTE EXPOSURE: SILICON DIOXIDE:</b>	Prolonged skin contact with dry particulate may cause drying of the skin.
<b>CHRONIC EXPOSURE: SILICON DIOXIDE:</b>	No data available
<b>EYE CONTACT:</b>	
<b>ACUTE EXPOSURE: SILICON DIOXIDE:</b>	Dusts may cause irritation with redness and pain.
<b>CHRONIC EXPOSURE: SILICON DIOXIDE:</b>	No data available
<b>INGESTION:</b>	
<b>ACUTE EXPOSURE: SILICON</b>	The effects of ingestion are purely mechanical as the substance is inert chemically and



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## SECTION 12 – ECOLOGICAL INFORMATION

**ECOTOXICITY:** N/A  
**ENVIRONMENTAL FATE:** N/A  
**ENVIRONMENTAL DEGRADATION:** N/A  
**SOIL ABSORPTION/MOBILITY:** N/A

## SECTION 13 – DISPOSAL CONSIDERATIONS

**DISPOSAL:** Waste material may be disposed of, incinerated, or recycled for its iron oxide under conditions that meet all Federal, state and local regulations. Contact your supplier or a licensed contractor for detailed recommendations.

**DISPOSAL REGULATORY REQUIREMENTS:** N/A  
**CONTAINER CLEANING AND DISPOSAL:** N/A

## SECTION 14 – TRANSPORT INFORMATION

### DOT TRANSPORTATION DATA (49 CFR 172.101)

<b>SHIPPING NAME:</b>	N/A	<b>LABEL:</b>	N/A	<b>PASSENGER AIR RAILCAR:</b>	N/A
<b>SHIPPING SYMBOL:</b>	N/A	<b>SPECIAL PROVISIONS:</b>	N/A	<b>CARGO AIRCRAFT:</b>	N/A
<b>HAZARD CLASS:</b>	N/A	<b>EXCEPTIONS:</b>	N/A	<b>OCEANGOING VESSEL STOWAGE:</b>	N/A
<b>ID NUMBER:</b>	N/A	<b>NON-BULK PACKAGING:</b>	N/A	<b>OTHER:</b>	N/A
<b>PACKING GROUP:</b>	N/A	<b>BULK PACKAGING:</b>	N/A		
<b>LABEL:</b>	N/A				

### EXPLANATION OF APPLICATION TRANSPORTATION CRITERIA:

N/A

## SECTION 15 – REGULATORY INFORMATION

<b>CHEMICAL COMPONENT:</b> Pigment	<b>CAS#:</b> Proprietary
TSCA inventory (US)	*
AICS inventory (Australia)	*
EINECS inventory (Europe)	*
DSL inventory (Canada)	*
ECL inventory (Korea)	*
ENCS inventory (Japan)	*
PICCS inventory (Phillipines)	*
CHINA inventory	*
<b>CHEMICAL COMPONENT:</b> Silica, amorphous	<b>CAS#:</b> Proprietary
TSCA inventory (US)	*
AICS inventory (Australia)	*
EINECS inventory (Europe)	*
DSL inventory (Canada)	*
ECL inventory (Korea)	*
ENCS inventory (Japan)	*
PICCS inventory (Phillipines)	*



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CHINA inventory

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\* Subject to the associated regulatory requirements and/or appears on the associated chemical inventory list.

## SECTION 16 – OTHER INFORMATION

### Abbreviations:

<b>ACGIH</b>	American conference of Governmental Industrial Hygiene
<b>IDLH</b>	Immediately Dangerous to Life and Health
<b>NA</b>	Not Applicable to the criteria OR Not Available
<b>ND</b>	Not Determined or Not Known
<b>NE</b>	Not Established
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation Recovery Act
<b>STEL</b>	Short Term Exposure Limit
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>TWA</b>	Time Weighted Average

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