

**MATERIAL SAFETY DATA SHEET**  
 MAY BE USED TO COMPLY WITH OSHA'S  
 HAZARD COMMUNICATION STANDARD  
 29CFR 1910.1200

**CLOVER TECHNOLOGIES**  
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DATE PREPARED: 11/20/08 SIGNATURE OF PREPARER (OPTIONAL)

**SECTION 1 CHEMICAL PRODUCT / NAME**

Product/Chemical Name: **Organic Photo Conductor (OPC) Drum use in Laser Printer Toner Cartridges**  
 CTG Product No: **OPC DRUM**  
 CAS Number:  
 Other Designations: N/A  
 General Use: Laser Printer Drum

**SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient Name:	CAS NUMBER	EU NUMBER	%	OSHA PEL	ACGIH TLV	OTHER LIMITS
Poly-Carbonate	25134-45-6		60			
Butadiene +	109995-82-6		40			

Note: Specific Chemicals amounts are proprietary. Information given above is for typical drum formulation and may vary for use in various laser printer cartridge model. The principal components however, are the same.

NDA = NO DATA AVAILABLE  
 N/A = NOT APPLICABLE

**SECTION 3 HAZARDOUS IDENTIFICATION**

Primary Entry Routes: N/A  
 Target Organs: N/A  
 Acute Effects: N/A  
 Inhalation: N/A  
 Eye: N/A  
 Skin: N/A  
 Ingestion: N/A  
 Carcinogenicity: N/A  
 Medical Conditions Aggravated By Long-Term Exposure: n/a  
 Chronic Effects: N/A

NFPA/HMIS	
HEALTH	1
FLAMMABIL	1
REACTIVITY	1
PPE (Sec.8)	-

**SECTION 4 FIRST AID MEASURES**

Inhalation:  
 Eye Contact: N/A  
 Skin Contact: N/A  
 Ingestion: N/A

Note to Physicians: N/A  
 Special Precautions / Procedures: N/A



## SECTION 5 FIRE FIGHTING MEASURES

**Flash Point:** N/A

**Flash Point Method:** N/A

**Burning Rate:** N/A

**Auto Ignition Temperature:** Not Determined

**LEL:** N/A

**UEL:** N/A

**Flammability Classification:** 1 Slight (HMIS, NFPA)

**Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide, or halon type extinguishers.

**Unusual Fire or Explosion Hazards:** May form flammable dust-air mixture.

**Hazardous Combustion Products:** N/A

**Fire-Fighting Instructions:** Not necessary

**Fire-Fighting Equipment:** Not necessary

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Spill / Leak Procedures:** N/A

**Small Spills:** N/A

**Large Spills:** N/A

**Containment:** N/A

**Cleanup:** N/A

**Regulatory Requirement:** N/A

## SECTION 7 HANDLING AND STORAGE

**Handling Precautions:** Keep it closed at all times. Avoid exposure to direct sunlight and acid!

**Storage Requirements:** Store in a cool, dry location.

**Regulatory Requirement:** N/A

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering Controls:

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (sec.2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

### Administrative Controls:

**Respiratory Protection:** N/A

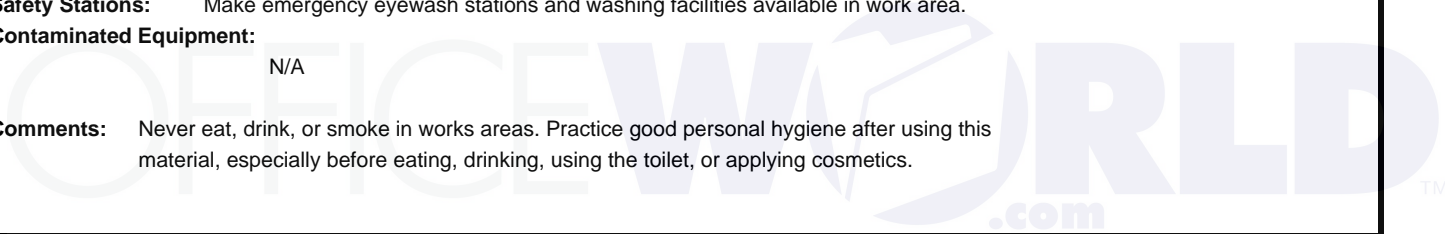
**Protective Clothing/Equipment:** N/A

**Safety Stations:** Make emergency eyewash stations and washing facilities available in work area.

### Contaminated Equipment:

N/A

**Comments:** Never eat, drink, or smoke in works areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.



**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Physical State:** aluminum cylinder containing various layer of light sensitive coating material, plastic gears & copper contact plate.

<b>Appearance and Odor:</b>		<b>Other Solubilities:</b>	N/A
<b>Odor Threshold:</b>	N/A	<b>Boiling Point:</b>	N/A
<b>Vapor Pressure:</b>	N/A	<b>Freezing/Melting Point:</b>	N/A
<b>Vapor Density (Air=1):</b>	N/A	<b>Viscosity:</b>	N/A
<b>Formula Weight:</b>	N/A	<b>Refractive Index:</b>	N/A
<b>Density:</b>	N/A	<b>Surface Tension:</b>	N/A
<b>Specific Gravity:</b>	N/A	<b>% Volatile:</b>	N/A
<b>pH:</b>	N/A	<b>Evaporation Rate:</b>	N/A

**SECTION 10 STABILITY AND REACTIVITY**

**Stability:** Stable  
**Polymerization:** None  
**Chemical Incompatibilities:** None  
**Conditions to Avoid:** None  
**Hazardous Decomposition Products:** None

**SECTION 11 TOXICOLOGICAL INFORMATION**

<b>Eye Effects:</b>	N/A	<b>Toxicity Data:*</b>	
<b>Skin Effects:</b>	N/A	<b>Acute Inhalation Effects:</b>	N/A
		<b>Acute Oral Effects:</b>	N/A
		<b>Chronic Effects:</b>	N/A
		<b>Carcinogenicity:</b>	N/A
		<b>Mutagenicity:</b> Ames Test	(Estimated from the results of testing the constituent components)
		Negative	
		<b>Teratogenicity:</b>	N/A

\*See NIOSH, RTECS for additional toxicity data.

**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 recycled as alluminum following all federal, state, and local environmental regulations.

**Disposal Regulatory Requirements:** N/A  
**Container Cleaning and Disposal:** N/A

**SECTION 14 TRANSPORT INFORMATION****DOT Transportation Data (49 CFR 172.101):** Not specifically listed.

<b>Shipping Name:</b>	N/A	<b>Packaging Authorizations</b>		<b>Quantity Limitations</b>	
<b>Shipping Symbol:</b>	N/A	a) Exceptions:	N/A	a) Passenger, Aircraft, or	
<b>Hazard Class:</b>	N/A	b) Non-bulk Packaging:	N/A	Railcar:	N/A
<b>ID No:</b>	N/A	c) Bulk Packaging:	N/A		
<b>Packing Group:</b>	N/A			<b>Vessel Stowage Requirements</b>	
<b>Label:</b>	N/A			a) Vessel Stowage:	N/A
<b>Special Provisions:</b>	N/A			b) Other:	N/A

## SECTION 15 REGULATORY INFORMATION

### EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification: (40 CFR 261): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) listed unlisted specific per RCRA, sec. 3001;  
CWA sec.311 (b)(4);

CWA, Sec. 307(a),CAA,Sec.112

CERCLA Reportable Quantity(RQ), Not listed

SARA 311/312 Codes: N/A

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40CFR 355): Not listed, Threshold Planning Quantity (TPQ)

### OSHA Regulations:

Air Containment (29 CFR 1910.1000< Table Z-1-A): Particulates not otherwise regulated.

**State Regulations:** Check your states regulations that may specifically list copy machine toner.

## SECTION 16 OTHER INFORMATION

Prepared By: N/A

Revision Notes: N/A

Additional Hazard Rating System: N/A

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