

MATERIAL SAFETY DATA SHEET

MSDS 825385-002

DATE: April 7, 2014

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HP2600 Toner - Black
PART NUMBER: BC2600B
COMPANY: Clover Technologies Group
ADDRESS: 4200 Columbus St, Ottawa, IL 61350
TELEPHONE: 800-464-0272 fax: 815-431-8120

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS No.	Weight %		
Resin	292629-36-8	80 – 90	Total dust	Inhalable
Wax	9002-88-4	5 - 15	15 mg/m ³	10 mg/m ³
Carbon Black	1333-86-4	5 - 10	Respirable	Respirable

SECTION 3 – HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTES: Inhalation
TARGET ORGANS: N/A
ACCUTE EFFECTS: N/A
INHALATION: Slight irritation of respiratory
EYE: Dust may cause irritation by mechanical abrasion.
SKIN: Slight irritation.
INGESTION: None Known
CARCINOGENICITY: N/A
MEDICAL CONDITIONS AGGRAVATED BY LONG-TERM EXPOSURE: Accumulations of dust in the respiratory system may cause congestion.
CHRONIC EFFECTS: If these materials are used in a manner that could generate airborne particles (dust), it is recommended that the dust be treated as a NUISANCE PARTICULATE according to the American Conference of Government Industrial Hygienists (ACGIH)(TLV=10mg/m³)

SECTION 4 – FIRST AID MEASURES

INHALATION: Move to fresh air immediately. If symptoms occur, consult a physician.
EYE CONTACT: In case of contact immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes. Remove any contact lenses to ensure thorough flushing. If irritation persists, consult a physician.
SKIN CONTACT: Wash affected area thoroughly with soap and water. If irritation persists, consult a physician.
INGESTION: Dilute stomach contents with several glasses of water. If irritation persists, consult a physician.
After first aid, get appropriate in-plant paramedic or community medical support if serious sign and symptoms persist.
NOTE TO PHYSICIAN: None when used as described by product literature.
SPECIAL PRECAUTIONS/PROCEDURES: N/A

MATERIAL SAFETY DATA SHEET

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT	N/A
FLASH POINT METHOD:	N/A
BURNING RATE:	N/A
IGNITION TEMPERATURE:	N/A
LEL:	N/A
UEL:	N/A
EXTINGUISHING MEDIA:	Water spray, dry chemical, foam or carbon dioxide.
FIRE OR EXPLOSION HAZARDS:	Toner is a combustible powder. Like most organic materials in Powder form, it can form explosive mixtures when dispersed In the air.
SPECIAL FIRE-FIGHTING PROCEDURES:	Avoid inhalation of smoke. Wear protective clothing and self-contained breathing apparatus.
FIRE-FIGHTING EQUIPMENT:	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

SPILL/LEAK PROCEDURES:	Vacuum or sweep spilled toner and carefully transfer into a bag or other sealed waste container. If vacuum is used, the motor must be rated as dust tight. Sweep slowly to minimize generation of dust during clean up. A conductive hose bonded to the machine should be used to reduce static build up. (see Section V). Dispose of waste toner in accordance with local requirements.
CLEANUP:	No special requirements.
REGULATORY REQUIREMENT:	Follow applicable OSHA regulations (29 CFR 1910.120)

SECTION 7 – HANDLING AND STORAGE

HANDLING PRECAUTIONS:	Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.
STORAGE REQUIREMENTS:	Store at room temperature. Keep away from strong oxidizers.
REGULATORY REQUIREMENTS:	N/A

MATERIAL SAFETY DATA SHEET

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:

Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select Respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operation (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purified respirators do not protect workers in oxygen-deficient atmospheres.*

PROTECTIVE CLOTHING/EQUIPMENT:

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 protective devices. Appropriate protection must be worn instead of, or in conjunction with contact lenses.

SAFETY STATIONS:

Make emergency eyewash stations and washing facilities available in work area.

CONTAMINATED EQUIPMENT:

Separate contaminated work clothing from street clothes. Launder before re-use. Remove this material from your shoes and clean personal protective equipment.

COMMENTS:

Never eat, drink, or smoke in work 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:

APPEARANCE AND ODOR:

Black fine powder, faint odor

ODOR THRESHOLD:

N/A

VAPOR PRESSURE:

N/A

Vapor density (Air=1):

N/A

FORMULA WEIGHT:

N/A

DENSITY:

N/A

SPECIFIC GRAVITY:

~1.3

Ph:

N/A

WATER SOLUBILITY:

Negligible

OTHER SOLUBILITY:

Partial soluble in Toluene & Xylene

BOILING POINT:

N/A

FREEZING/MELTING POINT:

~100°C

VISCOSITY:

N/A

REFRACTIVE INDEX:

N/A

SURFACE TENSION:

N/A

%VOLATILE:

N/A

EVAPORATION RATE:

N/A

MATERIAL SAFETY DATA SHEET

SECTION 10 – STABILITY AND REACTIVITY

STABILITY:	This is a stable product.
POLYMERIZATION:	Will not occur
CHEMICAL INCOMPATIBILITIES	None
CONDITIONS TO AVOID:	N/A
HAZARDOUS DECOMPOSITION PRODUCTS:	Products of combustion may be toxic. Avoid breathing smoke.

SECTION 11 – TOXICOLOGICAL INFORMATION

Oral LD50:	>5g/kg (rats) practically non-toxic
Dermal LD50:	>5g/kg (rabbits) practically non-toxic
Inhalation LC50:	>5 mg/l (rats, 4hr exposure) practically non-toxic >20mg/l (rats, calculated 1hr exposure) non-poisonous, DOT
Skin Sensitization:	Not an irritant
Human Patch:	Non-irritating, non-sensitizing
Mutagenicity:	Non-mutagenic in Ames assay.
Carcinogens:	None present
Aquatic LC50:	>1000mg/l (rainbow trout) non-toxic

Additional Information: The results obtained from a Chronic Toner Inhalation Study, demonstrated no lung change in Rats for the lowest (1 mg/m³) exposure level (i.e. the level of most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of the animals at the middle (4 mg/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m³) exposure level. These finding are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special toner to comply with EPA testing protocol. The test toner was ten times more respirable than commercially available toner, and would not be functionally suitable.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY:	N/A
ENVIRONMENTAL FATE:	N/A
ENVIRONMENTAL DEGRADITION:	N/A
SOIL ABSORPTION/MOBILITY	N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL:	This material is not hazardous waste according to the Federal Regulations 40 CFR 261 when disposed. State and local waste Disposal requirements however, may be more restrictive. Please Consult with the appropriate State and local waste disposal Authorities. Incinerate only in closed container.
DISPOSAL REGULATORY REQUIREMENTS:	N/A
CONTAINER CLEANING AND DISPOSAL:	N/A

SECTION 14 – TRANSPORT INFORMATION

DOT TRANSPORTATION DATA (49 CFR 172.101):	Not regulated as hazardous materials (dangerous goods) in Transportation.
IMO/IMDG:	Not regulated as hazardous materials (dangerous goods) in Transportation.
ICAO/IATA	Not regulated as hazardous materials (dangerous goods) in Transportation.

SHIPPING NAME:	N/A	PACKAGING AUTHORIZATIONS	QUANTITY LIMITATIONS
SHIPPING SYMBOL:	N/A	a) Exceptions: N/A	a) Passenger, Aircraft, or Railcar: N/A
HAZARD CLASS:	N/A	b) Non-bulk Packaging: N/A	
ID NO.:	N/A	c) Bulk Packaging: N/A	VESSEL STOWAGE REQUIREMENTS
PACKING GROUP:	N/A		a) vessel stowage: N/A
LABEL:	N/A		b) Other: N/A

MATERIAL SAFETY DATA SHEET

SPECIAL PROVISIONS: N/A

SECTION 15 – REGULATORY INFORMATION

EPA REGUALTIONS:

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 specified 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) (40 CFR 355): Not Listed, Threshold Planning Quantity (TPQ)

TSCA:

All chemical substances in this product comply with all applicable rules and orders under TSCA

OSHA REGULATIONS:

Air Contaminant (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

MATERIAL SAFETY DATA SHEET

The above information is believed to be accurate and represents the best information currently available to Clover Technologies Group. No warranty or representations with respect to such information is made, and no liability is assumed resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.