1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 **PRODUCT IDENTIFIER**

Product name: N/A

Part number: WERCS1176849

1.2 **IDENTIFIED USES AND USES ADVISED AGAINST**

For use in: This mixture is a toner used in copiers/printers.

1.3 **SUPPLIER DETAILS**

Supplier: Clover Technologies Group
4200 Columbus Street.
Ottawa, IL 61350
United States
Phone number: 815-431-8100
Fax: 815-461-8583

Contact Hours: 08:00AM-05:00PM CST

1.4 **EMERGENCY TELEPHONE NUMBERS**

Supplier: N/A

* This document provides safety-related information about toner contained in print cartridge for use in laser printer

2. HAZARDS IDENTIFICATION

2.1 **INFORMATION and CLASSIFICATION**

Overview: Physical Hazards: This material has no usual fire or explosion hazards but will burn if involved in a fire. Human Health Effects: Carbon black is reclassified as a group 2B by IARC, but inhalation tests using a typical toner showed no association between toner exposure and animal tumors. Inhalation: Minimum irritation to the respiratory tract may occur as with exposure to any non-toxic dust. Skin: Powder may cause drying of the skin with repeated or prolonged contact. Ingestion: No adverse effects expected. Eyes: High dust concentrations may cause irritation.

2.2 **LABEL ELEMENTS**

Applicable Pictograms: 

Danger Indications: N/A

Risk Phrases: N/A

Safety Phrases: N/A

2.3 **OTHER HAZARDS**

PBT or vPvB: N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Carbon black	1333-86-4	7	3.5mg/m3	3.5mg/m3	Hazardous Components. NIOSH: 3.5mg/m3
Polyester resin	39382-25-7	84	Not listed	Not listed	Non-Hazardous Components
Iron oxide	1317-61-9	3	Not listed	Not listed	Non-Hazardous Components
Polypropylene wax	9010-79-1	2	Not listed	Not listed	Non-Hazardous Components
Paraffin Wax*	8002-74-2	2	Not listed	Not listed	Non-Hazardous Components. *: Paraffin is not hazardous except for its flammable properties, but “Paraffin wax fume” is one of the hazardous chemicals. Its ACGIH TLVs (TWA) and NIOSH RELs (TWA) is the same value (2mg/m3).
Silica	67762-90-7	2	Not listed	Not listed	Non-Hazardous Components

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest Directives.

This section provides composition information for the toner powder contained in specially designed container inside of the print cartridge.

4. FIRST-AID MEASURES

4.1 **FIRST AID MEASURES**

4.1.1 **FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE**

Inhalation:	Remove to fresh air. If effects occur, consult medical personnel.
Eye contact:	Flush eyes with water to remove dust.
Skin contact:	Wash exposed skin with water and soap.
Ingestion:	Symptomatic treatment is recommended.

4.1.2 **ADDITIONAL FIRST AID INFORMATION**

Additional first aid information:	N/A
Immediate Medical Attention Required:	N/A

4.2 **SYMPTOMS AND EFFECTS**

Acute Symptoms from Exposure:	N/A
Delayed Symptoms from Exposure:	N/A

4.3 **IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED**

N/A

5. FIRE-FIGHTING MEASURES

5.1 **EXTINGUISHING MEDIA**

Recommended Extinguishing Media: Water fog, foam, CO2, dry chemical.

Extinguishing Media Not to be Used: N/A

5.2 **SPECIAL HAZARD**

Unusual Fire/Explosion Hazards: N/A

Extinguishing Media Not to be Used: N/A

5.3 **ADVICE FOR FIRE FIGHTERS**

Avoid inhalation of smoke. Wear protective cloting an wear self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

6.1.1 **PRECAUTIONS FOR NON-EMERGENCY PERSONNEL**

Wear appropriate respiratory protection.

6.1.2 **ADDITIONAL FIRST AID INFORMATION**

N/A

6.1.3 **PERSONAL PROTECTION**

Wear personal protective equipment as described in Section 8.

6.2 **ENVIRONMENTAL PRECAUTIONS**

Regulatory Information: Keep product out of sewers and watercourses.

6.3 **METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP**

Spill or Leak Cleanup Procedures: Sweep up or vacuum spilled toner and carefully transfer into a sealed container. Sweep slowly to minimize generation of dust during clean up. If a vacuum is used, the motor should be rated as dust tight. Residue can be removed with soap and water. Waste material may be dumped or incinerated under conditions which meet all national and local laws and regulations.

7. HANDLING AND STORAGE

7.1 **PRECAUTIONS FOR SAFE HANDLING**

Recommendations for Handling:	No special precautions when used as intended. Keep containers closed, avoid creating dust. Keep away from ignition sources.
Advice on General Hygiene:	Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

7.2 **CONDITIONS FOR SAFE STORAGE**

Avoid high temperatures, >100°F/32°C

7.3 **SPECIFIC END USES**

Printing devices

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **CONTROL PARAMETERS**

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 2).
Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

8.2 **EXPOSURE CONTROLS**

Respiratory protection:

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, levels of airborne contamination, and sufficient levels of oxygen.

Eye/Face Protection:

Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Hand/Skin Protection:

For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. WARNING! Air purifying respirators do not protect worker in oxygen deficient atmospheres.

Additional Protection:

N/A

Protective Clothing and Equipment:

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splash-proof chemical goggles and face shield when working with liquid, unless full face piece respiratory protection is worn.

Safety Stations:

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment:

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment. Never take home contaminated clothing.

Comments:

Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 **DETAIL INFORMATION**

Physical state:	APPEARANCE: Fine powder
Color:	N/A
Odor:	Odorless
Odor threshold:	N/A
Boiling point:	N/A
Melting point:	N/A
Flash point:	N/A
Explosion limits:	N/A
Relative density:	N/A
Auto-ignition temperature:	N/A

9.2 **OTHER INFORMATION**

SOLUBILITY IN WATER: Negligible. SPECIFIC GRAVITY: ca. 1.30 (H2O=1).

10. CHEMICAL STABILITY AND REACTIVITY

10.1 **Reactivity:**

Reactivity Hazards:	None
Data on Mixture Substances:	None

10.2 **Chemical Stability:** The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.3 **Hazardous Polymerization:** Stable under conditions of normal use.

10.4 **Conditions to Avoid:** Keep away from heat, flame, sparks and other ignition sources.

10.5 **Incompatible Materials:** Strong oxidising materials

10.6 **Hazardous Decomposition:** Will not occur.

11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures: N/A
Acute Toxicity: See “SECT ION 2 ”.
Skin Corrosion/Irritation: N/A
Serious Eye Damage: N/A
Inhalation: N/A
Sensitization: N/A
Mutagenicity: Negative in the Ames test.
Carcinogenicity: In 1996, the IARC revaluated carbon black as a GROUP 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.
Reproductive Toxicity: N/A
STOT - Single Exposure: N/A
STOT - Multiple Exposure: In a study in rats () by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the concentration(16mg/m3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m3) exposure group. But no pulmonary changes was reported in the lowest (1mg/m3) exposure group, the most relevant level to potential human exposures.
Ingestion: No data available.
Hazard Class Information: N/A
Mixture on Market Data: N/A
Symptoms: N/A
Delayed/Immediate Effects: N/A
Test Data on Mixture: N/A
Not Meeting Classification: N/A
Routes of Exposure: Inhalation, Ingestion, Eyes and Skin contact.
Interactive Effects: N/A
Absence of Specific Data: N/A
Mixture vs Substance Data: N/A

12. ECOLOGICAL INFORMATION

12.1 **Eco toxicity:** See “SECTION 15”.

12.2 **Degradability:** N/A

12.3 **Bioaccumulation Potential:** N/A

12.4 **Mobility in Soil:** N/A

12.5 **PBT & vPvB Assessment:** N/A

12.6 **Other Adverse Effects:** N/A

13. DISPOSAL CONSIDERATIONS

Disposal Information:
Dispose as a solid waste in accordance with local authority regulations.
Empty container retains product residue.

Physical/Chemical Properties that affect Treatment:
Symbol: This product is not classified as dangerous
Risk Phrases: This product is not classified according to the federal, state and local environmental regulations.

Waste Treatment Information:
Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

Personal Protection Required:
N/A

14. TRANSPORT INFORMATION

14.1 **ID Number:** None allocated. This is not a hazardous product.

14.2 **Shipping Name:** None allocated. This is not a hazardous product.

14.3 **Hazard Class:** None allocated. This is not a hazardous product.

14.4 **Packing Group:** None allocated. This is not a hazardous product.

14.5 **Environmental Hazards:** N/A

14.6 **User Precautions:** N/A

14.7 **Bulk Transport:** N/A

15. REGULATORY INFORMATION

15.1 **Regulatory Information:** TSCA: All chemical substances in this product comply with all applicable rules or orders under TSCA.

EPA Regulatory Information: N/A

CERCLA Reportable Quantity: N/A

15.2 **Superfund Information:**

Hazard Categories:

Immediate: N/A

Delayed: N/A

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

Pressure: N/A

Reactivity: N/A

Section 302 - Extremely Hazardous: N/A

Section 311 - Hazardous: N/A

15.3 **State Regulations:** N/A

15.4 **Other Regulatory Information:** EU: None.

16. OTHER INFORMATION

General Comments: This information is based on our current knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular application

Creation Date of this SDS: 05/27/2015

Key to Abbreviations and Acronyms used in this sheet:

ACGIH = American Conference of Governmental Industrial Hygienists	NIOSH = National Institute for Occupational Safety and Health
CERCLA = Comprehensive Environmental Response Compensation and Liability Act	OSHA = Occupational Health and Safety Administration
CLP = Classification, Labeling, and Packaging	PEL = Permissible Exposure Limit
DSD = Dangerous Substances Directive	SCBA = Self Contained Breathing Apparatus
EPA = Environmental Protection Agency	STOT = Specific Target Organ Toxicity
GHS = Globally Harmonized System	TLV = Threshold Limit Value
N/A = Not Applicable	UK = United Kingdom
NFPA = National Fire Protection Association	UN = United Nations

Ref: