# SAFETY DATA SHEET

#### 1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

#### 1.1 PRODUCT IDENTIFIER

Product name: N/A

Part number: WERCS1177946

#### 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

#### 2. HAZARDS IDENTIFICATION

#### 2.1 INFORMATION and CLASSIFICATION

Overview: Odorless blue fine powder. Not highly flammable, but when suspended in air, is combustible as with

most organic powders. POTENTIAL HEALTH EFFECTS: EYES - Solid or dusts may cause irritation or corneal injury; SKIN CONTACT - Essentially nonirritating to skin; SKIN ABSORPTION - Skin absorption is unlikely due to physical properties; INGESTION - Oral toxicity is believed to be low; INHALATION - Minimal irritation to respiratory tract may occur. FIRE AND EXPLOSION: SENSITIVITY TO MECHANICAL

IMPACT - None; SENSITIVITY TO STATIC CHARGE - None.

# 2.2 **LABEL ELEMENTS**

Applicable Pictograms:

NO PICTOGRAM

Danger Indications: N/A
Risk Phrases: N/A
Safety Phrases: N/A

2.3 OTHER HAZARDS

PBT or vPvB: N/A

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<sup>\*</sup> This document provides safety-related information about toner contained in print cartridge for use in laser printer



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#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients        | CAS number | Weight % | OSHA<br>PEL | ACGIH<br>TLV | Other |
|--------------------|------------|----------|-------------|--------------|-------|
| Styrene Acrylate   | 58048-89-8 | 68       |             |              |       |
| Cyan Pigment       | 147-14-8   | 10       |             |              |       |
| Polyester Resin    | 39382-25-7 | 8        |             |              |       |
| Iron oxide (Fe2O3) | 1309-37-1  | 7        |             |              |       |
| Silica             | 7631-86-9  | 3        |             |              |       |
| Copper oxide       | 1317-38-0  | 2        |             |              |       |
| Zinc oxide (ZnO)   | 1314-13-2  | 2        |             |              |       |

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 immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: Flush with plenty of water. Use soap.

Ingestion: No adverse effects anticipated by this route of exposure, incidental to proper handling.

#### 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

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#### 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

Minimize the release of particulates. Wear personal protective equipment.

#### 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: Do not use vacuum cleaner. After lightly spraying with water to prevent development of

dust, spills should be swept up or wiped up. Then residuals can be removed with soap and water. If it is not possible to scrub the floor with water, cover the floor and surrounding materials with suitable sheets of paper. These used sheets should be wrapped up in spills and transferred to a suitable container for disposal. Garments may be washed or dry

cleaned, after removal of loose toner.

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#### 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 splashproof 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.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 **DETAIL INFORMATION**

Physical state: APPEARANCE: Cyan Powder.

N/A

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

#### 9.2 OTHER INFORMATION

Auto-ignition temperature:

SOLUBILITY IN WATER: Negligible. SP. GRAVITY: ca. 1.30 - 1.40. FLAMMABLE PROPERTIES: Not highly flammable.

#### 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.

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#### 11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures: N/A
Acute Toxicity: N/A
Skin Corrosion/Irritation: N/A
Serious Eye Damage: N/A
Inhalation: N/A
Sensitization: N/A

**Mutagenicity:** Negative in the Ames test. (Estimated from the data of constituent components.)

Carcinogenicity: N/A
Reproductive Toxicity: N/A
STOT - Single Exposure: N/A

STOT - Multiple Exposure: In a study in rats (H. Muhle) 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: N/A

Hazard Class Information: N/A
Mixture on Market Data: N/A
Symptoms: N/A
Delayed/Immediate Effects: N/A

**Test Data on Mixture:** REFERENCES: H. Muhle, B. Bellmann, O. Creutzenbert, C. Dasenbrock, H. Ernst, R. Kilpper, J. C.

Mackenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.

280-299.

Not Meeting Classification: N/A
Routes of Exposure: N/A
Interactive Effects: N/A
Absence of Specific Data: N/A
Mixture vs Substance Data: N/A

#### 12. ECOLOGICAL INFORMATION

12.1 Eco toxicity: N/A

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

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#### 13. DISPOSAL CONSIDERATIONS

CLOVER.

#### **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: FERRITE: SARA Title III Section 313 (Copper compounds, Zinc compounds). EU: Especially

none.

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# 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

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### Key to Abbreviations and Acronyms used in this sheet:

| ACGIH = American Conference of Governmental Industrial    | NIOSH = National Institute for Occupational Safety and Health |  |  |
|---|---|--|--|
| Hygienists  |   |  |  |
| CERCLA = Comprehensive Environmental Response Compensatio | nOSHA = Occupational Health and Safety Administration         |  |  |
| and Liability Act   |   |  |  |
| 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   |  |  |
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warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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