### MATERIAL SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD

#### **CLOVER TECHNOLOGIES GROUP**

4200 COLUMBUS STREET OTTAWA, ILLINOIS 61350



NFPA/HMIS

0

**HEALTH** 

REACTIVITY

PPE (Sec.8)

29CRF 1910.1200

#### **EMERGENCY TELEPHONE NUMBER 815-431-8100**

DATE PREPARED: 2/23/11 SIGNATURE OF PREPARER (OPTIONAL)

### SECTION 1 CHEMICAL PRODUCT / NAME

Product/Chemical Name: 1160/1320 MICR

CTG Product No: MCR49AM
CAS Number: Mixture
Other Designations: N/A

General Use: Laser Printer

# SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

CAS EU % OSHA ACGIH OTHER Ingredient Name: NUMBER NUMBER PEL TLV LIMITS

Toner is regulated under OSHA as particulate not

otherwise regulated:

10mg/m<sup>3</sup> total dust Polyester Resin N/A 10mg/m3 total dust Styrene/acrylate copolymer 00-42-5/25153-46 10mg/m3 total dust Polypropylene wax 9010-79-1 10mg/m3 total dust Iron oxide 1317-61-9 5mg/m<sup>3</sup> total dust Charge control dye 84179-66-8 10mg/m3 total dust Fumed Silica 68611-44-9 10mg/m<sup>3</sup> total dust Fumed Silica 677625-90-7

Does not contain ingredients known to remain hazardous properties according 29 CFR 1910.1200.

NDA = NO DATA AVAILABLE N/A = NOT APPLICABLE

## **SECTION 3 HAZARDOUS IDENTIFICATION**

Primary Entry Routes: Inhalation

Target Organs: N/A
Acute Effects: N/A

Inhalation: Slight irritation of respiratory tract.

Eye: Dust may cause irritation by mechanical abrasion.

Skin: Slight irritation.
Ingestion: None known.
Carcinogenicity: N/A

Medical Conditions Aggravated By Long-Term Exposure: Accumulation 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 may be treated as a NUISANCE PARTICULATE according to the American Conference of Government

Industrial Hygienists (ACGIH)(TLV=10mg/m<sup>3</sup>).

**SECTION 4 FIRST AID MEASURES** 

Inhalation: Remove to fresh air. Treat any irritation symptomatically. Call a physician if condition persists.

Eye Contact: In case of contact immediately flush with plenty of low pressure water for at least

15 minutes. Remove any contact lenses to ensure thorough flushing.

Skin Contact: Wash well with soap and running water.

Ingestion: N/A

After first aid, get appropriate in-plant paramedic or community medical support

if serious signs and symptoms perist.

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 of Explosion Hazards: May form flammable dust-air mixture.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxide and smoke.

Under certain conditions some aliphatic aldehydes and carboxylic acids

may form.

**Fire-Fighting Instructions:** Do not release runoff from fire controls methods to sewers or waterways. **Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a

self-contained breating apparatus (SCBA) with full facepiece operated

in pressure-demand or positive-pressure mode.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill / Leak Procedures: N/A

Small Spills: Scoop into a container for disposal, suction up remaining material with a high efficiency

vacuum cleaner.

Large Spills: Scoop into a container for disposal, suction up remaining material with a high efficiency

vacuum cleaner.

Containment: For large spills, avoid suspending particles, collect for later disposal. Do not release

into sewers or waterways.

Cleanup: No special requirements.

Regulatory Requirement: N/A

## SECTION 7 HANDLING AND STORAGE

Handling Precautions: Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.

Storage Requirements: Store in a cool, dry location.

Regulatory Requirement: N/A

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Venilation: 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:

Safety Stations:

**Respiratory Protection:** Seek professional advise 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

atmosheres.

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.

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

Contaminated Equipment: Separate contaminated wprk 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 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

 $(H_2O)=1$ , at 4°C): 1.4

Physical State: Water Solubility: Insoluble Appearance and Odor: Black, free flowing powder, slight odor Other Solubilities: N/A Odor Threshold: N/A **Boiling Point:** N/A Vapor Pressure: N/A Freezing/Melting Point: N/A Vapor Density (Air=1): Heavier than air. Viscosity: N/A Refractive Index: Formula Weight: N/A N/A Density: N/A **Surface Tension:** N/A

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Specific Gravity:

pH:

Polymerization: will not occur Chemical Incompatibilities: None

Conditions to Avoid: None

**Hazardous Decomposition Products:** 

SECTION 11 TOXICOLOGICAL INFORMATION

N/A Eye Effects: **Toxicity Data:\*** 

Skin Effects: N/A **Acute Inhalation Effects:** N/A

**Acute Oral Effects:** N/A **Chronic Effects:** N/A Carcinogenicity: N/A

Mutagenicity: Ames Test

% Volatile:

**Evaporation Rate:** 

testing the constituent components) Negative

(Estimated from the results of

N/A

N/A

Teratogenicity: N/A

\*See NIOSH, RTECS for additional toxicity data.

**SECTION 12 ECOLOGICAL INFORMATION** 

Ecotoxicity: **Environmental Fate:** N/A

**Environmental Degradation:** N/A Soil Absorption / Mobility: N/A

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal: Waste material may be incinerated / or recycled for its Iron Oxide under conditions which meet

all federal, state, and local environmental regulations.

Disposal Regulartory Requirements: N/A Container Cleaning and Disposal:

SECTION 14 TRANSPORT INFORMATION

DOT Transportation Data (49 CFR 172.101): Not specifically listed

Shipping Name: **Packaging Authorizations** N/A **Quantity Limitations** Shipping Symbol: N/A a) Exceptions: a) Passenger, Aircraft, or N/A **Hazard Class:** N/A b) Non-bulk Packaging: N/A N/A

ID No: N/A c) Bulk Packaging: N/A

Packing Group: N/A **Vessel Stowage Requirements** Label: N/A a) Vessel Stowage: N/A

Special Provisions: N/A

b) Other: N/A

Railcar:

## SECTION 15 REGULATORY INFORMATION

EPA Regulations:

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

N/A

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:

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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