MATERIAL SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29CFR 1910.1200



DATE PREPARED

8/7/02

SIGNATURE OF PREPARER (OPTIONAL)

SECTION 1 CHEMICAL PRODUCT / NAME

Product/Chemical Name:

EX LJ4 MicroGraphics 1

CAS Number:

Mixture N/A

Other Designations: General Use:

Laser Printer

CECTIONIO	COMPOSITION / INFORMATION ON INGREDIENTS	
SECTION	COMPOSITION / INFORMATION ON INGREDIENTS	а

CAS **OSHA ACGIH** OTHER Ingredient Name: NUMBER PEL TLV LIMITS

Toner is regulated under OSHA as particulate not

otherwise regulated:

Styrene-Acrylate Copolymer

25036-16-2 < 60.0

OSHA PEL: 15mg/m3

Magnetite

1317-61-9 > 40.0

5mg/m3 for respirable fraction

Polypropylene Wax

9003-07-0 < 5.0

ACGIH TWA: 10mg/m3 for nuisance particulate

Silica

Proprietary <2.0

NDA = NO DATA AVAILABLE

N/A = NOT APPLICABLE

SECTION 3 HAZARDOUS IDENTIFICATION

Primary Entry Routes: Inhalation

Target Organs:

N/A

N/A

Н 1 F

> R 1

PPE

Sec.8

HMIS

1

Acute Effects:

Inhalation: Eye:

Slight irritation of respiratory tract. 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 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:

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:

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

if serious sign and symptoms persist.

Note to Physicians:

N/A

Special Precautions / procedures:

N/A

Section 5 FIRE FIGHTING MEASURES

Flash Point:

Flash Point Method: N/A Burning Rate: N/A

Auto Ignition Temperature:

Not Determined

LEL:

N/A 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:

Carbon monoxide, carbon dioxide, nitrogen oxide and smoke.

Under certain conditions some aliphatic aldehydes and carboxylic acids

may form.

Fire- Fighting Instructions: Fire-Fighting Equipment: Do not release runoff from fire control methods to sewers or waterways. 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:

N/A

Small Spills:

Scoop into container for disposal, suction up remaining material with high efficiency

vacuum cleaner.

Large Spills:

Scoop into container for disposal, suction up remaining material with 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 Requirements:

IVA

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 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

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

Appearance and Odor: Black, free flowing powder, faint odor.

Odor Threshold: Vapor Pressure:

Physical State:

Other Solubilities:

Negligible N/A

N/A

Boiling Point:

Freezing/Melting Point: N/A

Vapor Density(Air=1): Heavier than air.

Viscosity:

N/A

Formula Weight:

N/A

Refractive Index:

Water Solubility:

Density:

N/A

Surface Tension:

N/A N/A

Specific Gravity:

(H₂O=1, at 4°C): 1.3 - 1.8

%Volatile:

N/A

pH:

N/A

Evaporation Rate:

N/A

SECTION 10 STABILITY AND REACTIVITY

STABILITY:

N/A

POLYMERIZATION:

N/A N/A

CHEMICAL INCOMPATIBILITIES: CONDITIONS TO AVOID:

Avoid open flames

HAZARDOUS DECOMPOSITION PRODUCTS:

Toxic decomposition products formed on combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

Eye Effects:

N/A

N/A

Toxicity Data: *

Skin Effects:

Acute Inhalation Effects: N/A

Acute Oral Effects: N/A Chronic Effects:

Carcinogenicity:

N/A

Mutagenicity:

Ames test - Negative

Teratogenicity: N/A

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

N/A

Environmental Fate:

N/A

Environmental Degradation: Soil Absorption / Mobility:

N/A 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 Regulatory Requirements:

N/A

Container Cleaning and Disposal:

N/A

SECTION 14 TRANSPORT INFORMATION

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

Shipping Name:

N/A

Packaging Authorizations

N/A

Quantity Limitations

Shipping Symbol:

N/A

a) Exceptions:

a) Passenger, Aircraft, or

Hazard Class:

N/A

b)Non-bulk Packaging: N/A

Railcar:

N/A

ID No.:

N/A

c) Bulk Packaging:

Vessel Stowage Requirements

Packing Group:

N/A

a) vessel stowage:

N/A

Label: Special Provisions N/A N/A

b)Other:

N/A

^{*}See NIOSH,RTECS for additional toxicity data.

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

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.

All Ingredients are listed on the TSCA inventory.

SECTION 16 OTHER INFORMATION

Prepared By: N/A
Revision Notes: N/A
Additional Hazard Rating System: N/A

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