Product MICR-TJN-400 January 1, 2004

1.0 Preparation and company identity

Identification of the preparation MICR-TJN-400

Company identification microMICR Corporation

35 S.W. 12th Avenue Suite 112

**Dania, FL 33004** 

Telephone number 954-922-8044

2.0 Composition/information on ingredients

This product is a toner preparation that is used for Magnetic Ink Character Rcognition (MICR) applications and general printing in laser printer models Hewlett-Packard LJ 4000, 4050 series

Ingredients

Substance CAS number Percent (wt) Symbol R Phrase

Styrene Acrylate Copolymer Styrene Butadiene Resin

Iron Oxide (1317-61-9)

Polypropylene Wax Charge Control Agent

**Fumed Silica** 

THE SPECIFIC CHEMICAL IDENTITIES AND PROPORTIONS ARE TRADE SECRETS.

3.0 Hazards identification

Potential Health Effects

Ingestion effects: Low acute toxicity. Ingestion is a minor route of entry for intended

use of this product.

Inhalation effects: Minimal respiratory tract irritation may occur with exposure to

large amounts of dust.

Eye Effects: May cause transient slight irritation.
Skin effects: Unlikely to cause skin irritation.

Chronic Effects: Prolonged inhalation of excessive amounts of any dust may cause

lung damage. Use of this product as intended does not result in

inhalation of excessive amounts of dust.

Environmental hazards

No particular hazards known.

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4.0 First-aid measures

Ingestion

Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a physician immediately.

Inhalation

Move person to fresh air immediately. If symptoms occur, consult a physician.

Eye Contact

Do not rub eyes. Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 5 minutes or until particles are removed. If irritation persists, consult a physician.

Skin Contact

Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

5.0 Fire-fighting measures

Extinguishing Media: CO<sub>2</sub>, water, dry chemical

Unsuitable Extinguishing Media: None Special Fire Fighting Procedures: None

Unusual Fire & Explosion Hazards: Like most organic material in powder form, toner can

form explosive dust-air mixtures when finely

dispersed in air.
Flash Point (method used):
Flammable Limits:
Autoignition Temperature:

Not applicable
Not available

Flammability: Non-flammable solid (according to test methods of

**EU Directive 92/69/EEC, A10 Flammability (Solids))** 

Autoflammability: Not applicable

Explosive Properties: Like most organic material in powder form, toner can

form explosive dust-air mixtures when finely

dispersed in air.

Oxidizing Properties:

Hazardous Combustion Products:

Other Properties:

Not available
CO<sub>2</sub>, CO
Not known

6.0 Accidental release measures

Spill and Leakage Procedures

Avoid breathing dust. Minimize the release of particles. Slowly sweep the material into a bag or other sealed container. Clean remainder with a damp cloth or vacuum cleaner. If a vacuum is used, the motor must be rated as dust tight. Dispose of waste toner in accordance with local requirements.

Environmental precautions

Do not discharge into drains (See also Section 13, Disposal Considerations).

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7.0 Handling and storage

Advise on safe handling and protection against fire

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Use with adequate ventilation. Keep away from excessive heat, sparks, and open flames.

Requirements for storage rooms and advice on storage compatibility

Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

8.0 Exposure controls / personal protection

Exposure Limits For Toner:

USA OSHA (TWA<sup>5</sup>)/PEL): 15 mg/m³ (Total Dust)

5 mg/m³ (Respirable Fraction)
ACGIH (TWA/TLV): 10 mg/m³ (Inhalable Particulate)

3 mg/m³ (Respirable Particulate)

DFG (MAK): 4 mg/m³ (Inhalable Fraction)

1.5 mg/m³ (Respirable Fraction)

(Also refer to Section 2.)

Respiratory Protection: Not required under intended use.

Ventilation: Good general ventilation should be sufficient

under intended use.

Protective Gloves:

Eye Protection:

Other Protective Equipment:

Not required under intended use.

Not required under intended use.

Not required under intended use.

9.0 Physical and chemical properties

Boiling Point: Not applicable

Melting Point: 100 - 150°C (Softening Point)

Decomposition Temperature: >200°C

Vapor Pressure (mmHg.):

Vapor Density (Air=1):

Solubility in Water:

Not applicable
Not applicable
Negligible

Solubility in Organic Solvents: Partially soluble in toluene and xylene.

Specific Gravity (H<sub>2</sub>0=1):

Percent Volatile by Volume:

Evaporation Rate (Butyl Acetate=1):

Not applicable

Not applicable

H: Not applicable

Appearance and Odor: Fine black powder, slight plastic odor.

10.0 Stability and reactivity

Stability: Stable

Incompatibility: Strong oxidizers

Hazardous Decomposition Products: CO<sub>2</sub>, CO
Hazardous Polymerization: Will not occur.

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# 11.0 Toxicological information

Inhalation: LC<sub>50</sub>:inh-rat>5mg/L/4 hrs., not harmful. Ingestion: LD<sub>50</sub>:orl-rat>2000 mg/kg, not harmful.

Eye Contact: Not classified as irritant, according to OSHA Hazard Communication

Standard (HCS) and EU Directive 67/548/EEC.

Skin Contact: Not classified as irritant, according to OSHA Hazard

Communication Standard (HCS) and EU Directive 67/548/EEC.

Chronic Toxicity: No data available.

Sensitization: Not classified as a sensitizer according to EU Directive 67/548/EEC

and OSHA HCS (US).

Mutagenicity: Negative, does not indicate mutagenic potential (Ames Test:

Salmonella typhimurium)

Carcinogenicity: Not a known or suspected carcinogen according to any IARC

Monograph, NTP, OSHA Regulations (USA), EU Directive, or

Proposition 65 (California).

Reproductive Toxicity: Not classified as toxic according to EU Directive 67/548/EEC,

California Prop. 65, or DFG (Germany).

### 12.0 Ecological information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

#### 13.0 Disposal considerations

Do not put toner or toner cartridge into fire; heated toner may cause severe burns. 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 regulation.

## 14.0 Transportation information

### International Transport Information:

UN No.: None
UN Shipping Name: None
Hazards Class: None
Packing Group: None
Special Precautions: None

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# 15.0 Regulatory information

**USA Label Information:** 

Signal Word:
Hazard Warning:
Safety Advice:

Not required
Not required
Not required

Hazardous Component(s): None

Chemicals Required to Report Under Sara Title III Section 313 (USA):

None

Chemicals Required to Report Under California Proposition 65 (USA):

None

Label Information According to the Directives 88/379/EEC and 67/548/EEC (EU):

Symbol and Indications:

R Phrases:

S Phrases:

Not required.

Not required.

Dangerous Components (CAS No.) wt%: None Other: None

Special provisions in relation to protection of man or the environment:

 (EEC) 2455/92:
 Not regulated.

 76/769/EEC:
 Not regulated.

 (EC)3093/94
 Not regulated.

Other: None

## 16.0 Other information

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

For general information, contact microMICR at 954-680-8856.