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# Fax

MCM-MICR TLN342

<b>To:</b> Marisol Gonzalez	<b>From:</b> Kristin Petersen
<b>Fax:</b> 847-627-7989	<b>Pages:</b> 11
<b>Phone:</b>	<b>Date:</b> 6/16/2006
<b>Re:</b> MSDS(TLN-342)(THN-11A)	<b>CC:</b>

☐ Urgent    ☐ For Review    ☐ Please Comment    ☐ Please Reply    ☐ Please Recycle

• **Message:**

Marisol,

Here is the information you requested. Along with The MICR-TLN-342 we also added a new sku MICR-THN-11A.

Thank You,

Kristin

**Material Safety Data Sheet****Product MICR-THN-11A****1.0 Preparation and company identity**

Identification of the preparation

**MICR-THN-11A**

Company identification

**microMICR Corporation**  
**9116 Griffin Road**  
**Ft. Lauderdale, FL 33328**

Telephone number

**954-680-8856****2.0 Composition/Information on ingredients**

**This product is a toner preparation that is used for Magnetic Ink Character Recognition (MICR) applications and general printing in laser printer models Lexmark E-E+ series**

Ingredients

<u>Substance</u>	<u>CAS number</u>	<u>Percent (wt)</u>	<u>Symbol</u>	<u>R Phrase</u>
<b>Styrene Acrylate Copolymer</b>				
<b>Styrene Butadiene Resin</b>				
<b>Iron Oxide</b>	<b>(1317-61-9)</b>			
<b>Polypropylene Wax</b>				
<b>Charge Control Agent</b>				
<b>Fumed Silica</b>				

**THE SPECIFIC CHEMICAL IDENTITIES AND PROPORTIONS ARE TRADE SECRETS.**

**3.0 Hazards identification**

Potential Health Effects

<b>Ingestion effects:</b>	<b>Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.</b>
<b>Inhalation effects:</b>	<b>Minimal respiratory tract irritation may occur with exposure to large amounts of dust.</b>
<b>Eye Effects:</b>	<b>May cause transient slight irritation.</b>
<b>Skin effects:</b>	<b>Unlikely to cause skin irritation.</b>
<b>Chronic Effects:</b>	<b>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.</b>

Environmental hazards

**No particular hazards known.**

**Material Safety Data Sheet**

Product MICR-THN-11A

Issue date: June 16, 2006

**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):****Not applicable****Flammable Limits:****Not applicable****Autoignition Temperature:****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:****Not available****Hazardous Combustion Products:****CO<sub>2</sub>, CO****Other Properties:****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).**



**Material Safety Data Sheet**Product MICR-THN-11A  
Issue date: June 16, 2006**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/m<sup>3</sup> (Total Dust)****5 mg/m<sup>3</sup> (Respirable Fraction)**

ACGIH (TWA/TLV):

**10 mg/m<sup>3</sup> (Inhalable Particulate)****3 mg/m<sup>3</sup> (Respirable Particulate)**

DFG (MAK):

**4 mg/m<sup>3</sup> (Inhalable Fraction)****1.5 mg/m<sup>3</sup> (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:

**Not required under intended use.**

Eye Protection:

**Not required under intended use.**

Other Protective Equipment:

**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.):

**Not applicable**

Vapor Density (Air=1):

**Not applicable**

Solubility in Water:

**Negligible**

Solubility in Organic Solvents:

**Partially soluble in toluene and xylene.**Specific Gravity (H<sub>2</sub>O=1):**1.4 - 1.8**

Percent Volatile by Volume:

**Negligible**

Evaporation Rate (Butyl Acetate=1):

**Not applicable**

pH:

**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.**

**Material Safety Data Sheet**Product MICR-THN-11A  
Issue date: June 16, 2006**11.0 Toxicological information**

Inhalation:	LC <sub>50</sub> :in h-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

**Material Safety Data Sheet****Product MICR-THN-11A**  
Issue date: June 16, 2006**15.0 Regulatory information****USA Label Information:**

Signal Word:	Not required
Hazard Warning:	Not required
Safety Advice:	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:	Not required.
R Phrases:	Not required.
S Phrases:	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 microMCR at 954-680-8856.**



**Material Safety Data Sheet****Product MICR-TLN-342**

May 22, 2006

**1.0 Preparation and company identity**

Identification of the preparation

**MICR-TLN-342**

Company identification

**microMCR Corporation****9116 Griffin Road****Ft. Lauderdale, FL 33328**

Telephone number

**954-680-8856****2.0 Composition/information on ingredients**

**This product is a toner preparation that is used for Magnetic Ink Character Recognition (MICR) applications and general printing in laser printer models Lexmark E-E+ series**

**Ingredients**

<u>Substance</u>	<u>CAS number</u>	<u>Percent (wt)</u>	<u>Symbol</u>	<u>R Phrase</u>
<b>Styrene Acrylate Copolymer</b>				
<b>Styrene Butadiene Resin</b>				
<b>Iron Oxide</b>	<b>(1317-61-9)</b>			
<b>Polypropylene Wax</b>				
<b>Charge Control Agent</b>				
<b>Fumed Silica</b>				

**THE SPECIFIC CHEMICAL IDENTITIES AND PROPORTIONS ARE TRADE SECRETS.**

**3.0 Hazards identification****Potential Health Effects**

<b>Ingestion effects:</b>	<b>Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.</b>
<b>Inhalation effects:</b>	<b>Minimal respiratory tract irritation may occur with exposure to large amounts of dust.</b>
<b>Eye Effects:</b>	<b>May cause transient slight irritation.</b>
<b>Skin effects:</b>	<b>Unlikely to cause skin irritation.</b>
<b>Chronic Effects:</b>	<b>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.</b>

**Environmental hazards**

**No particular hazards known.**

**Material Safety Data Sheet**Product MICR-TLN-342  
Issue date: May 22, 2006**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):****Not applicable****Flammable Limits:****Not applicable****Autoignition Temperature:****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:****Not available****Hazardous Combustion Products:****CO<sub>2</sub>, CO****Other Properties:****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).**



**Material Safety Data Sheet**Product MICR-TLN-342  
Issue date: May 22, 2006**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/m<sup>3</sup> (Total Dust)****5 mg/m<sup>3</sup> (Respirable Fraction)**

ACGIH (TWA/TLV):

**10 mg/m<sup>3</sup> (Inhalable Particulate)****3 mg/m<sup>3</sup> (Respirable Particulate)**

DFG (MAK):

**4 mg/m<sup>3</sup> (Inhalable Fraction)****1.5 mg/m<sup>3</sup> (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:

**Not required under intended use.**

Eye Protection:

**Not required under intended use.**

Other Protective Equipment:

**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.):

**Not applicable**

Vapor Density (Air=1):

**Not applicable**

Solubility in Water:

**Negligible**

Solubility in Organic Solvents:

**Partially soluble in toluene and xylene.**Specific Gravity (H<sub>2</sub>O=1):**1.4 - 1.8**

Percent Volatile by Volume:

**Negligible**

Evaporation Rate (Butyl Acetate=1):

**Not applicable**

pH:

**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.**

**Material Safety Data Sheet**

Product MICR-TLN-342

Issue date: May 22, 2006

**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

**Material Safety Data Sheet**Product MICR-TLN-342  
Issue date: May 22, 2006**15.0 Regulatory Information**

## USA Label Information:

Signal Word:	Not required
Hazard Warning:	Not required
Safety Advice:	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:	Not required.
R Phrases:	Not required.
S Phrases:	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.